

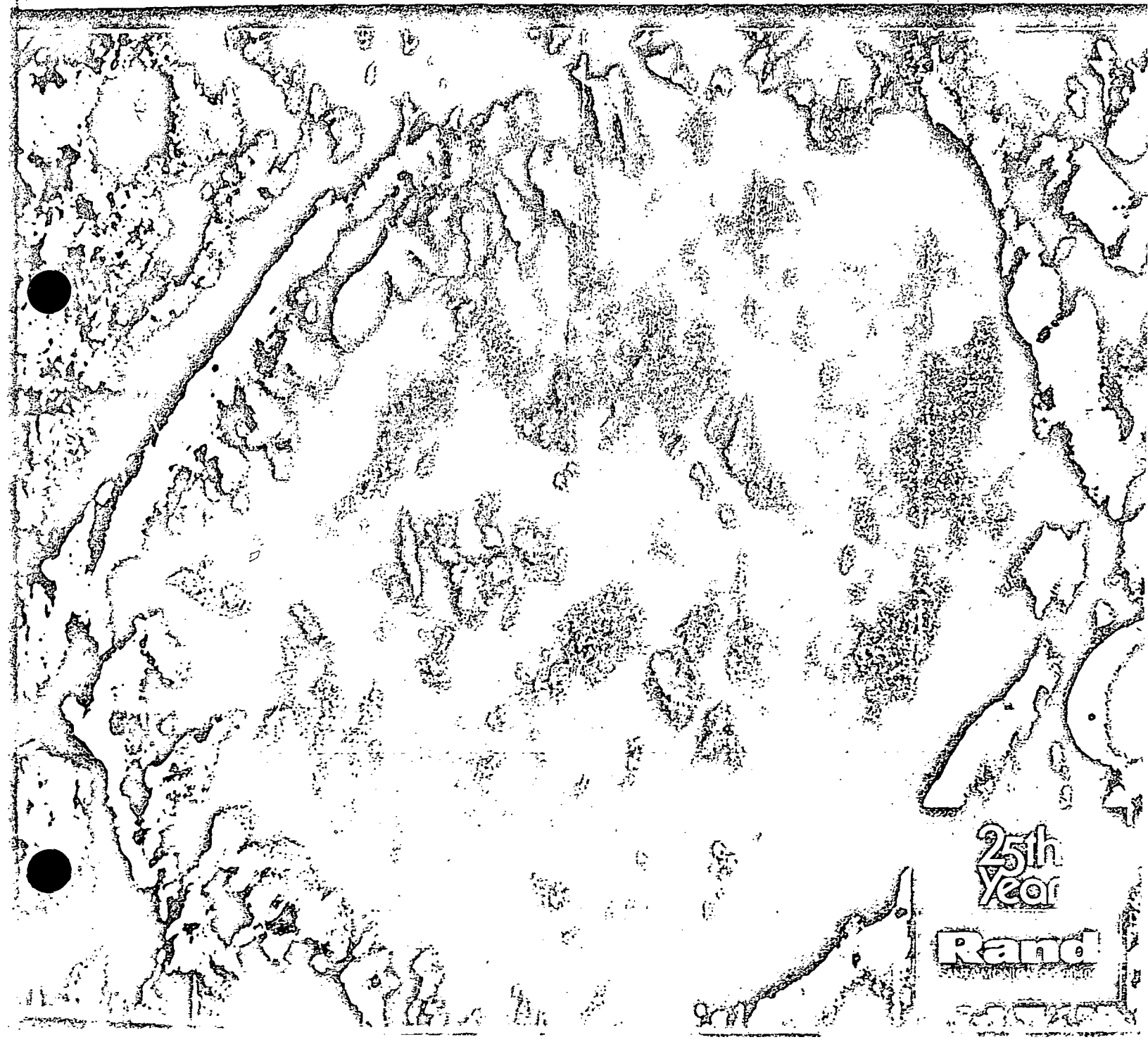
CONTROL POINT MEASUREMENTS ON MARINER 9 PICTURES

SPONSORED BY THE JET PROPULSION LABORATORY,
CALIFORNIA INSTITUTE OF TECHNOLOGY

MERTON E. DAVIES

R-1332-JPL

JULY 1973



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Year

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This research was supported by the Jet Propulsion Laboratory, California Institute of Technology, under Contract No. 953011. Views or conclusions contained in this study should not be interpreted as representing the official opinion or policy of the Jet Propulsion Laboratory.

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SANTA MONICA, CA. 90406

PREFACE

The identification and measurement of points are the first steps in establishing a control net by photogrammetric means. The control net, which is a land survey that gives the latitude and longitude of the control points, is used in the preparation of maps to relate the topography to the coordinate system.

The work on the control net of Mars started with the Mariner 6 and 7 pictures and has been redone and greatly expanded with the results from the Mariner 9 mission. The Mariner 9 navigation information and camera calibration data are much better than those for Mariner 6 and 7, rendering the prior work obsolete. The Mariner 9 point identification and measurement program started immediately after the spacecraft went into orbit and has continued since that time. Most of the initial measurements had to be discarded because the pictures on which they were based were poor due to the dust storm on Mars. Much improved pictures became available as the mission progressed.

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SUMMARY

This report contains a listing of all of the measurements of the control points on the Mariner 9 pictures that were used in the computation of the June 1973 control net of Mars.

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I. INTRODUCTION

A new control net of Mars has been determined by photogrammetric means using the pictures taken by the Mariner 9 spacecraft during its one-year life in orbit.⁽¹⁾ All of the pictures used in the control net computations were taken with the wide-angle camera, which had a focal length of 52.267 mm. The faceplate of the vidicon was 9.6 mm × 12.5 mm, and the television readout scanned 700 lines per frame and sampled each line 832 times, producing a format of 700 × 832 picture elements (or pixels) per frame.

The control points are identified on at least two and preferably more pictures and their positions on these pictures are measured. These measurements are the basic data for the analytical aerotriangulation which yields coordinates for these points. Thus, they are the starting point for the computations. Section II discusses the method of making the measurements, the picture coordinate system, and the removal of distortions. The table gives 9804 measurements of 1645 points on 660 pictures; these are the starting data for the computation of the June 1973 control net.⁽¹⁾

II. THE MEASUREMENTS

The control points are defined as the centers of particular craters wherever possible. In a few regions, such as the areas around the volcanoes, craters are scarce and other topographic features are used.

The measurements are made by counting pixels on pictures that have had no geometric processing but are high-pass filtered. A dotted grid every 25 and 100 pixels is superimposed to facilitate pixel counting, as is illustrated in the figure. These special versions of the pictures are made at the Image Processing Laboratory (IPL) of the Jet Propulsion Laboratory (JPL). Pixel counting is used instead of a comparator because the image film converter at IPL introduces its own distortions.

The origin of the pixel measurements is the upper left-hand corner; X is measured to the right (at JPL this is called the sample) and Y is measured down (at JPL this is the television line). The measurements are made with the aid of an acetate template on which circles have been scribed with a pair of dividers. The proper size circle is placed over the crater and the pixel coordinates of the center estimated to one-tenth pixel with the aid of the pixel grid. Seven to ten measurements of each point are made by two or three people and then averaged. These averages (\bar{X} , \bar{Y}) are tabulated in the table. When the picture quality is good and the crater is well defined, the measurements have standard deviations of 0.2 to 0.5 pixel (0.003 to 0.007 mm). Any measurement differing from the average by more than two pixels is rejected as a gross error.

During calibration before launch, the locations of the 111 reseau points on the vidicon faceplate (image plane) were carefully measured using an optical comparator and the location of the principal point was determined.⁽²⁾ The IPL developed a computer program to locate the reseau marks on the pictures. A program to remove the optical and electronic distortions was prepared using the reseau locations and measurements of a special cross-hatch target in the collimator.⁽³⁾ With this program the pixel coordinates of a point \bar{X} , \bar{Y} are corrected for distortions and scaled to image coordinates at the focal plane (vidicon faceplate). These coordinates -- x_o , y_o -- are given in millimeters for each measurement



Control points 251, 252, 253, and 321 identified on map - gridded version of
Mariner 9 frame 135-08 (DAS 06425268)

in the table. The origin of the image coordinates is the principal point with the x_0 axis parallel to the center line of reseau points and positive to the right; y_0 is positive down.

The table lists the 9804 measurements of 1645 points giving both pixel coordinates and image coordinates. The 660 pictures are identified by revolution number and frame number within the revolution as well as the DAS reference time.⁽⁴⁾

Measurements of the Control Points on Mariner 9 Pictures

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
6506	03930825	262	196.3	140.0	-3.6962	-3.1420
		263	243.2	335.3	-2.9699	-0.3820
		264	292.7	454.1	-2.2175	1.2781
		266	546.3	466.8	1.6189	1.4437
		333	307.7	656.8	-1.9998	4.1112
		334	340.6	278.8	-1.5018	-1.1776
6510	03931105	184	457.4	311.0	0.2693	-0.7230
		186	378.0	508.0	-0.9232	2.0346
		333	691.9	21.3	3.8923	-4.7907
		1801	554.7	228.7	1.7374	-1.8747
		1802	267.3	210.3	-2.6154	-2.1301
6710	04002925	184	657.1	234.7	3.2926	-1.8088
		186	575.8	468.8	2.0632	1.4705
		1801	752.9	129.9	4.7953	-3.2767
		1802	442.9	162.1	0.0445	-2.8189
		1803	133.1	214.3	-4.6493	-2.1113
6711	04002995	194	354.1	575.2	-1.2858	2.9650
		195	650.7	248.0	3.1927	-1.6200
		1863	566.0	161.2	1.9097	-2.8275
6910	04074745	184	792.9	114.7	5.4298	-3.4869
		186	729.1	368.4	4.3817	0.0756
		1802	568.4	69.7	1.9534	-4.1087
		1803	241.7	181.5	-3.0061	-2.5515
6911	04074815	190	365.5	665.3	-1.1172	4.2277
		191	242.8	633.7	-2.9924	3.7917
		192	178.0	395.6	-3.9588	0.4594
		193	381.4	401.6	-0.3765	0.5395
		194	439.3	546.2	0.0073	2.5574
		195	728.4	155.1	4.3949	-2.9142
		1863	631.4	82.0	2.9206	-3.9370
7110	04146635	187	442.8	309.7	0.0465	-0.7516
		189	324.7	571.5	-1.7355	2.9136
		190	194.3	106.0	-3.7317	-3.6326
		1803	435.6	135.2	-0.0705	-3.1927
9710	05058378	223	249.0	388.6	-2.8786	0.3684
		236	522.5	428.8	1.2577	0.9217

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
9712	05058448	223	488.9	509.0	0.7562	2.0431
		236	761.5	544.8	4.8774	2.5956
		238	418.4	171.9	-0.3290	-2.6639
9714	05058513	223	746.0	627.6	4.6521	3.7810
		224	336.7	498.6	-1.5430	1.9043
		238	662.4	282.8	3.3707	-1.1171
		239	144.5	244.3	-4.4725	-1.6673
9716	05058538	224	610.3	625.7	2.5978	3.6984
		237	205.9	503.5	-3.5352	1.9771
		239	406.2	353.7	-0.5029	-0.0516
		240	199.4	115.0	-3.6519	-3.4882
9718	05058658	237	493.5	629.9	0.8230	3.7416
		239	690.4	473.5	3.7910	1.5632
		240	468.2	214.4	0.4272	-2.0677
9806	05094148	248	646.9	372.5	3.1316	0.1369
		250	520.2	508.2	1.2275	2.0324
		251	271.7	232.8	-2.5474	-1.7989
9810	05094238	251	670.5	600.5	3.4958	3.3574
		252	457.7	616.3	0.2853	3.5490
		253	370.3	258.3	-1.0533	-1.4531
		258	692.6	157.3	3.3401	-2.8669
9812	05094353	253	590.4	455.2	2.2807	1.2947
		254	193.1	353.3	-3.6519	-0.1145
		255	165.7	165.7	-4.1567	-2.7744
		256	483.8	166.8	0.7373	-2.7328
9814	05094428	384	632.3	298.9	2.9128	-0.8398
		254	427.7	561.5	-0.1684	2.7822
		255	391.6	368.9	-0.7237	0.0938
		256	719.2	364.7	4.2293	0.0380
9818	05094563	257	793.2	512.3	5.4373	2.1490
		305	529.4	405.9	1.3592	-0.5994
9904	05130058	242	420.0	337.6	-0.2962	-0.3488
		243	437.9	128.5	0.7251	-3.2722
		245	306.0	308.2	-2.0220	-0.7561

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
9906	05130128	234	207.0	206.8	-3.5280	-2.1820
		242	615.5	497.1	2.6626	1.8938
		243	681.7	282.5	3.6635	-1.1198
		244	457.7	89.9	0.2676	-3.8087
		245	502.5	468.8	0.9586	1.4832
9903	05130198	234	415.3	375.4	-0.3572	0.1811
		244	665.0	250.9	3.4101	-1.5651
		245	709.2	631.6	4.0860	3.8183
		246	173.7	204.7	-4.0305	-2.2210
		361	373.6	150.3	-1.0105	-2.9647
9910	05130268	172	100.5	18.1	-5.2158	-4.9739
		222	551.8	36.6	1.7094	-4.5545
		246	393.2	379.4	-0.6992	0.2385
		362	275.9	170.1	-2.4890	-2.6930
9912	05130328	171	221.2	96.2	-3.3234	-3.7496
		172	326.2	183.3	-1.7272	-2.5021
		222	781.8	209.2	5.2085	-2.1370
		246	624.9	563.2	2.8056	2.8185
		362	506.2	352.2	1.0080	-0.1471
9914	05130408	171	461.2	277.7	0.3233	-1.1839
		172	569.6	370.5	1.9643	0.1083
		362	752.7	538.4	4.7405	2.5007
10001	05164708	251	553.7	500.1	1.7396	1.9441
		252	446.2	600.9	0.1169	3.3504
		253	306.0	507.4	-2.0122	2.0347
		258	434.6	332.1	-0.0711	-0.4151
10002	05164778	251	368.9	31.2	-0.7765	-4.6553
		252	273.7	123.2	-2.5237	-3.3672
		261	188.3	433.6	-3.8023	0.9903
		262	523.3	502.3	1.2735	1.9397
		1874	259.0	260.2	-2.7366	-1.4390
		1914	738.8	557.4	4.5273	2.7549
		1915	383.2	370.4	-0.8512	0.1015
10003	05164848	262	373.3	67.6	-1.0147	-4.1425
		263	385.9	361.6	-0.8100	-0.0204
		264	424.4	532.5	-0.2187	2.3672
		266	753.3	619.7	4.7619	3.6619

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
10003	05164848	334	539.7	320.2	1.5146	-0.6080
		1869	172.3	486.6	-4.0405	1.7345
		1873	68.3	257.2	-5.6358	-1.5158
		1914	589.8	139.1	2.2767	-3.1370
10004	05164918	264	260.9	87.8	-2.7217	-3.8688
		265	492.3	492.4	0.8136	1.8048
		266	537.9	200.0	2.2426	-2.2826
		267	285.2	616.5	-2.3387	3.5488
		330	650.3	303.6	3.1865	-0.8359
		333	204.1	339.5	-3.5620	-0.3241
		1800	454.6	619.3	0.2379	3.5848
10006	05166038	199	344.2	431.7	-1.4734	0.9917
		258	98.7	375.6	-5.1837	0.1696
10008	05166108	163	325.0	192.9	-1.7483	-2.3793
		199	605.5	654.9	2.5225	4.1016
		258	363.0	616.2	-1.1478	3.5371
		259	226.3	324.8	-3.2287	-0.5325
10010	05166178	163	591.3	396.7	2.2904	0.4617
		259	499.1	538.0	0.9102	2.4417
10202	05236738	263	309.6	8.7	-1.9932	-4.9966
		264	359.6	174.6	-1.2225	-2.6379
		333	341.0	440.0	-1.4871	1.0767
		1801	143.3	671.4	-4.5563	4.3410
		1869	101.7	164.4	-5.1352	-2.8283
		1870	89.6	531.1	-5.3397	2.3574
10203	05236808	261	272.9	237.6	-2.5280	-1.7472
		262	641.0	267.7	3.0464	-1.3333
		263	696.5	559.2	3.8830	2.7721
		1873	352.9	513.8	-1.3017	2.1133
		1874	328.6	51.8	-1.6955	-4.3618
		1915	473.0	148.5	0.5743	-2.9947
10204	05236878	263	341.6	113.3	-1.4953	-3.4910
		264	388.6	238.3	-0.7734	-1.0393
		265	655.2	663.3	3.2716	4.2481
		266	718.5	352.2	4.2209	-0.1458
		333	357.1	559.4	-1.2380	2.7506
		334	493.2	56.5	0.8109	-4.2825

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
10204	05236878	1869	120.6	268.8	-4.8342	-1.3268
		1870	97.2	648.2	-5.2855	4.0290
10205	05236943	265	425.9	131.7	-0.2158	-3.2301
		267	210.3	283.7	-3.4699	-1.1047
		1800	379.2	268.6	-0.9164	-1.3136
10301	05272648	171	456.2	160.8	0.2428	-2.8247
		172	513.2	141.5	1.1093	-3.0954
		246	722.5	124.0	4.3135	-3.3443
		284	457.2	470.6	0.2746	1.5021
		285	165.1	477.1	-4.1610	1.6038
		289	370.8	577.7	-1.0320	3.0031
		389	628.3	608.0	2.8586	3.4454
10302	05272713	284	267.3	21.0	-2.6306	-4.8237
		289	174.3	127.5	-4.0281	-3.3244
10303	05272788	286	143.2	172.7	-4.4956	-2.6864
		391	395.2	166.7	-0.6808	-2.7394
		392	78.5	364.8	-5.4817	0.0185
		393	317.5	645.0	-1.8486	3.9476
		1877	122.6	24.3	-4.8588	-4.3611
		1878	183.0	504.2	-3.8855	1.9853
10304	05272858	287	464.1	666.2	0.3816	4.2492
		288	731.8	572.0	4.4231	2.9715
		393	153.2	237.3	-4.2636	-1.7642
		394	297.0	574.3	-2.1535	2.9611
		397	615.6	561.5	2.6665	2.7893
10305	05272928	287	313.3	271.2	-1.9128	-1.2769
		288	537.5	190.3	2.2390	-2.4111
		394	149.3	174.3	-4.4035	-2.6613
		397	473.8	171.5	0.5128	-2.6716
10501	05344608	171	499.4	141.2	0.9013	-3.1002
		172	556.0	110.3	1.7636	-3.5328
		285	207.6	512.9	-3.5116	2.1039
		284	545.0	443.9	1.5980	1.1262
		289	460.7	567.9	0.3311	2.8629
		356	372.7	343.0	-1.0102	-0.2759
		389	751.2	545.5	4.7194	2.5923

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
10502	05344678	284	379.1	18.9	-0.9289	-4.8221
		286	496.6	608.7	0.8749	3.4399
		289	290.1	142.8	-2.2741	-3.0804
		389	589.6	135.4	2.2732	-3.1806
		390	237.5	581.7	-3.0639	3.0663
		391	757.5	551.3	4.8160	2.6818
		1875	654.6	359.3	3.2490	-0.0523
		1877	452.1	456.9	0.1976	1.3124
		1879	294.0	475.2	-2.1966	1.5764
		1880	128.0	572.7	-4.7515	2.9465
10503	05344748	236	333.4	183.3	-1.6173	-2.5062
		290	95.4	373.0	-5.2217	0.1374
		390	65.4	151.3	-5.7047	-3.0365
		391	602.4	138.5	2.4689	-3.1358
		392	275.3	400.1	-2.4812	0.5287
		393	561.7	654.6	1.8592	4.0961
		1877	293.4	28.3	-2.2343	-4.7074
		1878	402.2	531.2	-0.5547	2.3542
		1879	129.1	45.1	-4.7413	-4.5374
		1881	196.5	608.0	-3.6976	3.4373
10504	05344818	287	738.0	654.2	4.5344	4.1644
		292	233.6	377.5	-3.1123	0.2138
		393	409.1	249.9	-0.4645	-1.5745
		394	564.3	582.6	1.9036	3.0789
		1878	251.0	116.1	-2.8683	-3.4626
10601	05380518	254	774.2	56.2	5.1801	-4.3139
		255	697.6	42.4	3.9626	-4.4943
		268	661.5	640.0	3.3668	3.9110
		1858	474.0	613.5	0.5331	3.5044
		1859	678.2	330.9	3.6039	-0.4524
10602	05380588	193	432.4	445.2	-0.9999	1.1498
		194	506.5	626.8	1.0256	3.6944
		268	492.4	211.0	0.7944	-2.1231
		1849	126.5	256.5	-4.7464	-1.4998
		1850	143.1	60.1	-4.5237	-4.3096
		1856	256.0	509.2	-2.7749	2.0539
		1857	322.6	377.4	-1.7661	0.2101
		1858	301.7	172.4	-2.0977	-2.6633
		1860	637.6	527.6	2.9978	2.3106
		1863	776.2	77.4	5.1937	-4.0105

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
10603	05380658	187	484.4	625.6	0.6914	3.6766
		190	213.7	328.3	-3.4163	-0.4764
		193	262.0	16.7	-2.7138	-4.8852
		194	332.0	201.2	-1.6366	-2.2564
		1856	78.5	82.5	-5.5164	-4.0332
		1860	470.0	103.3	0.4566	-3.6290
		1861	467.3	309.8	0.4198	-0.7427
		1862	313.9	512.0	-1.8932	2.0898
		1864	723.0	654.3	4.3051	4.1524
		1865	725.9	420.2	4.3307	0.8105
		1866	507.2	444.7	1.0305	1.1408
10604	05380728	187	312.6	214.1	-1.9298	-2.0752
		1864	555.0	254.4	1.7449	-1.5177
		1865	565.1	14.1	1.9238	-4.8806
		1866	342.1	31.7	-1.4928	-4.6480
10701	05416499	284	635.2	305.9	2.9524	-0.7814
		285	281.1	436.3	-2.3960	1.0424
		289	561.3	440.0	1.9399	1.0833
		356	441.8	239.7	0.0214	-1.6971
10702	05416568	286	673.7	430.1	3.5379	0.9426
		289	405.4	6.7	-0.5232	-4.9906
		290	453.9	672.8	0.2271	4.3416
		293	208.0	512.3	-3.5053	2.0979
		390	395.0	452.9	-0.6668	1.2598
		392	642.6	657.4	3.0813	4.1581
		1875	803.3	156.5	5.5719	-2.8873
		1877	612.7	286.7	2.6173	-1.0701
		1879	448.4	333.5	0.1337	-0.4106
		1880	278.7	466.7	-2.4290	1.4587
		1886	287.9	211.1	-2.3044	-2.1190
10703	05416638	286	530.5	10.1	1.3896	-4.9344
		290	299.1	250.4	-2.1315	-1.5678
		291	336.5	662.0	-1.5567	4.1873
		292	650.1	625.7	3.1911	3.7069
		294	220.6	420.7	-3.3098	-0.8176
		392	492.4	242.2	0.7945	-1.6857
		1878	637.3	352.2	2.9874	-0.1507
		1880	122.9	42.1	-4.3433	-4.5893
		1881	425.6	476.3	-0.2015	1.5853
		1882	23.7	361.0	-6.3414	-0.0408

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
10703	05416638	1883	141.3	307.3	-4.5092	-0.7800
10704	05416708	291	172.5	244.1	-4.0472	-1.6664
		292	493.5	218.9	0.8113	-2.0095
		393	662.6	50.7	3.4160	-4.3690
		1881	270.2	61.7	-2.5837	-4.2323
10802	05452548	192	327.7	607.5	-1.6877	3.4225
		193	655.4	593.3	3.2658	3.2427
		268	693.2	345.1	3.8365	-0.2508
		269	492.6	135.4	0.7974	-3.1821
		270	138.3	217.3	-4.5715	-2.0570
		1849	297.4	464.8	-2.1451	1.4304
		1850	291.9	257.5	-2.2390	-1.4712
		1851	167.5	407.6	-4.1173	0.6296
		1859	572.4	25.1	3.5802	-4.7366
10803	05452618	191	283.3	476.5	-2.3589	1.5943
		192	162.5	169.0	-4.2053	-2.7355
		193	504.5	167.1	0.9771	-2.7382
		194	593.6	347.8	2.4041	-0.2164
		1849	138.8	27.8	-4.6017	-4.7924
		1856	309.9	265.9	-1.9662	-1.3535
		1857	372.2	114.5	-1.0317	-3.4743
		1860	733.5	222.2	4.4616	-1.9680
		1861	752.5	434.0	4.7349	1.0100
		1862	606.0	675.7	2.5302	4.4085
10804	05452688	1866	306.6	562.0	5.5764	2.8557
		187	639.5	354.9	3.0213	-0.1153
		189	449.9	621.9	0.1681	3.6239
		190	329.4	79.2	-1.6824	-3.9751
		271	377.5	489.8	-0.9294	1.7754
		1852	281.0	430.5	-2.3938	0.9522
		1854	213.7	152.6	-3.4310	-2.9553
		1855	274.1	310.1	-2.5031	-0.7329
		1861	605.5	18.0	2.5468	-4.8290
10806	05453808	1862	449.5	259.5	0.1464	-1.4450
		1866	657.5	154.6	3.3067	-2.9134
		255	702.9	666.4	3.9976	4.3114
		256	787.8	417.0	5.2762	0.7700
		257	500.0	629.7	0.9255	3.7286
		306	275.7	356.0	-2.4777	-0.0959

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
10306	05453808	359	70.0	586.1	-5.6826	3.1378
		368	343.9	163.6	-1.4608	-2.7922
		382	58.5	316.2	-5.7953	-0.6795
		383	450.6	439.5	0.1733	1.0620
		384	725.2	459.5	4.3174	1.3583
10808	05453878	257	801.7	518.5	5.4939	2.2267
		305	637.9	681.6	3.0104	4.5012
		306	582.1	231.6	2.1541	-1.8415
		359	361.5	461.6	-1.1739	1.3789
		365	73.1	632.9	-5.6699	3.8112
		363	650.0	33.3	3.2300	-4.6189
		382	361.1	179.5	-1.1979	-2.5653
		383	757.9	325.6	4.8231	-0.5190
10901	05488458	171	692.1	184.9	3.8338	-2.4962
		285	460.6	629.8	0.3301	3.7311
		289	766.7	571.2	4.9622	2.9646
		296	243.5	592.1	-2.9741	3.2102
		356	609.5	405.3	2.5685	0.5840
10903	05488598	213	37.5	486.3	-6.1518	1.7300
		214	139.3	612.7	-4.5947	3.5102
		286	746.6	94.4	4.7116	-3.7627
		290	534.2	334.1	1.4324	0.2922
		293	246.2	257.4	-2.9286	-1.4736
		294	463.2	579.7	0.3694	3.0316
		392	735.7	338.7	4.4836	-0.3344
		1879	498.4	27.4	0.8964	-4.6934
		1880	321.5	194.4	-1.7952	-2.3536
		1881	687.8	594.4	3.7585	3.2727
		1882	240.2	557.2	-3.0182	2.7237
		1883	369.6	475.5	-1.0498	1.5760
		1884	93.3	300.2	-5.2542	-0.8909
10904	05438668	291	437.4	400.2	-0.0282	0.5225
		292	774.0	310.1	5.0736	-0.7291
		294	301.4	161.3	-2.1026	-2.8185
		1831	530.5	184.8	1.3727	-2.4876
		1882	72.2	136.2	-5.6000	-3.2527
		1883	206.4	55.3	-3.5543	-4.3454
		1887	108.4	408.3	-5.0195	0.6357
11001	05524508	147	369.5	304.6	-1.0616	-0.8146

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
11001	05524508	148	518.2	357.6	1.1903	-0.0820
		257	723.9	48.6	4.3748	-4.4117
		269	740.3	413.1	4.5576	0.7088
		270	369.7	562.1	-1.0470	2.7832
		305	661.9	174.4	3.3701	-2.6406
		365	395.7	311.7	-0.6648	-0.7165
		366	507.4	240.4	1.0219	-1.7157
11002	05524578	270	217.6	164.8	-3.3712	-2.7817
		1840	103.2	208.6	-5.1093	-2.1906
		1841	98.2	325.6	-5.1795	-0.5309
		1848	393.4	669.0	-0.6908	4.2837
		1849	427.8	391.4	-0.1745	0.3982
		1850	396.9	173.7	-0.6562	-2.5740
		1851	272.7	357.3	-2.5222	-0.0709
		1856	641.2	602.2	3.0525	3.3670
11003	05524648	190	728.7	461.5	4.3720	1.3937
		191	509.3	469.3	1.0626	1.4829
		193	718.5	105.4	4.2671	-3.6069
		1845	155.7	503.0	-4.3043	1.9680
		1848	262.6	301.6	-2.6776	-0.8529
		1849	304.3	19.0	-2.0708	-4.8416
		1856	521.0	241.7	1.2289	-1.6965
		1857	570.4	73.6	1.9900	-4.0460
11004	05524718	139	758.3	631.4	4.8471	3.8401
		190	598.8	77.1	2.4244	-3.9966
		191	373.7	76.9	-1.0091	-4.0043
		271	676.4	501.7	3.5786	1.9521
		272	237.8	312.3	-3.0523	-0.7029
		273	259.6	505.9	-2.7199	2.0061
		1846	142.7	598.3	-4.5356	3.3062
		1847	176.4	375.4	-3.9809	0.1800
		1852	572.3	453.0	2.0105	1.3264
		1853	297.2	161.0	-2.1663	-2.8256
		1854	482.5	177.6	0.6436	-2.5905
		1855	556.0	333.7	1.7612	-0.4141
11005	05524788	189	631.4	278.5	2.9018	-1.1829
		271	553.6	141.7	1.7247	-3.0916
11102	05560488	285	483.3	519.2	0.7456	2.1802

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
11102	05560488	296	232.2	525.4	-3.1378	2.2759
		356	627.1	270.5	2.8348	-1.2991
		1886	744.2	648.1	4.6275	4.0728
11103	05560558	285	345.1	105.0	-1.4434	-3.6107
		293	580.9	594.0	2.1454	3.2411
		295	201.4	664.2	-3.6405	4.2289
		296	79.4	105.2	-5.4940	-3.7051
		1879	813.7	315.1	5.6830	-0.6550
		1880	653.5	517.6	3.2337	2.1721
		1884	420.6	671.1	-0.2793	4.3140
		1885	376.7	392.1	-0.9483	0.4108
		1886	606.1	250.8	2.5171	-1.5724
		1890	276.2	479.2	-2.4673	1.6317
		1891	245.2	337.6	-2.9395	-0.3481
		1893	107.4	578.4	-5.0817	3.0288
11104	05560628	213	221.0	503.0	-3.3072	1.9666
		214	347.3	617.0	-1.3910	3.5547
		290	765.0	303.0	4.9356	-0.8321
		294	707.4	520.6	4.0457	2.2259
		295	51.5	280.0	-5.9051	-1.1898
		293	445.4	219.1	0.0820	-2.0079
		1880	522.5	141.5	1.2514	-3.0953
		1882	459.4	538.4	0.3113	2.4521
		1883	597.7	428.7	2.3888	0.9170
		1884	279.0	290.6	-2.4311	-1.0072
		1885	239.4	9.0	-3.0593	-5.0095
		1889	90.0	537.4	-5.3368	2.4513
		1890	134.0	95.5	-4.6567	-3.8069
11106	05560768	211	73.7	113.5	-5.5783	-3.5855
		215	468.5	369.6	0.4402	0.0935
		291	608.5	33.2	2.5852	-4.6120
		297	289.9	261.6	-2.2634	-1.4117
		1104	311.1	233.9	-1.9512	-1.7986
		1105	325.2	210.3	-1.7304	-0.7289
		1106	383.1	245.2	-0.8595	-1.6411
		1887	245.8	91.8	-2.9502	-3.8111
11201	05596468	147	387.7	296.4	-0.7869	-0.9310
		148	553.9	319.8	1.7283	-0.6123
		365	415.5	300.5	-0.3660	-0.8747

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
11202	05596538	182	113.4	487.3	-4.9576	1.7437
		192	581.6	451.6	2.1491	1.2355
		270	267.9	131.2	-2.6120	-3.2495
		277	269.9	513.5	-2.5638	2.1110
		1840	145.3	199.2	-4.4638	-2.3128
		1841	151.8	314.6	-4.3567	-0.6786
		1842	43.0	527.0	-6.0844	2.3064
		1848	506.8	606.3	1.0298	3.4057
		1849	516.2	317.3	1.1582	-0.6432
		1350	458.0	112.8	0.2719	-3.4987
		1851	347.2	313.7	-1.3979	-0.6852
		1856	761.2	492.0	4.8644	1.8321
11203	05596608	191	640.8	348.2	3.0408	-0.2105
		192	448.2	66.0	0.1251	-4.1519
		272	528.0	619.7	1.3502	3.5948
		277	125.1	123.5	-4.7834	-3.4029
		1845	267.9	450.6	-2.5921	1.2324
		1848	367.9	222.5	-1.0920	-1.9602
		1856	629.8	115.3	2.8924	-3.4640
11204	05596678	272	398.3	263.5	-0.6230	-1.3888
		1846	305.5	591.4	-2.0246	3.1981
		1847	337.4	341.6	-1.5441	-0.2933
		1852	752.5	356.4	4.7336	-0.0855
		1853	447.8	91.8	0.1182	-3.7918
		1854	637.5	78.0	3.0176	-3.9359
		1855	726.3	223.4	4.3505	-1.8822
11205	05596748	273	306.4	119.5	-2.0301	-3.4089
		274	249.3	452.8	-2.8741	1.2652
		1060	146.1	354.7	-4.4446	-0.1126
		1061	277.4	401.3	-2.4490	0.5448
11228	05599268	378	632.5	644.6	2.9305	3.9697
		1199	393.1	559.4	-0.6916	2.7463
		2204	207.1	499.5	-3.5173	1.9158
		2206	158.3	494.9	-4.2631	1.8526
		2207	144.3	356.6	-4.4724	-0.0881
11302	05632588	285	460.4	77.1	0.3108	-4.0022
		293	767.8	532.0	4.9720	2.4040
		295	357.4	678.7	-1.2411	4.4212
		296	159.4	126.1	-4.2555	-3.3495

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
11302	05632588	1884	604.1	640.4	2.4978	3.3976
		1885	528.0	362.5	1.3385	-0.0148
		1886	754.4	181.7	4.7914	-2.5402
		1890	425.5	470.1	-0.2032	1.4951
		1891	376.4	328.6	-0.9549	-0.4799
		1892	100.5	235.1	-5.1473	-1.8156
		1893	242.9	607.8	-2.9845	3.4314
11303	05632658	212	148.4	633.2	-4.4854	4.5150
		213	423.9	495.4	-0.2269	1.8509
		214	569.5	594.4	1.9754	3.2452
		293	641.0	156.0	3.0535	-2.3947
		295	214.3	290.8	-3.4115	-1.0067
		299	170.4	507.0	-4.0808	2.0235
		1880	711.9	64.8	4.1768	-4.1782
		1882	636.5	487.0	3.7318	1.7460
		1883	319.7	347.8	5.7708	-0.1932
		1884	471.3	261.5	0.4753	-1.4183
		1889	277.5	561.2	-2.4500	2.7775
		1890	291.3	79.1	-2.2634	-3.9827
		1893	97.2	216.2	-5.2033	-2.0843
11304	05632728	211	469.7	484.6	0.4646	1.6986
		213	305.7	132.6	-2.0401	-3.2243
		214	451.4	237.5	0.1734	-1.7520
		297	708.0	603.1	4.0677	3.4058
		298	232.9	491.0	-3.1256	1.7984
		299	43.6	145.2	-6.0432	-3.1427
		1887	645.9	432.8	3.1171	0.9775
		1888	258.6	376.6	-2.7351	0.1995
		1889	150.3	197.3	-4.3874	-2.3366
11305	05632798	209	107.5	330.3	-5.0377	-0.4619
		211	354.3	134.9	-1.3028	-3.1880
		215	777.3	346.4	5.1262	-0.2218
		297	590.8	262.9	2.2865	-1.4027
		298	109.7	138.1	-5.0153	-3.1998
		1104	612.8	230.0	2.6204	-1.8617
		1105	631.2	309.8	2.8974	-0.7467
		1106	687.0	228.1	3.7494	-1.8875
11308	05633918	1887	535.0	85.9	1.4461	-3.8731
11308	05633918	166	417.1	682.2	-0.3317	4.4684
		167	258.2	540.9	-2.7427	2.4914

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
11303	05533918	258	83.7	134.2	-5.4204	-3.2805
11401	05668498	147	440.0	279.5	0.0035	-1.1701
		148	623.8	273.5	2.7860	-1.2605
		149	285.3	282.2	-2.3354	-1.1288
		198	185.0	436.4	-3.8516	1.0316
		232	72.6	338.8	-5.5745	-0.3505
		365	471.7	278.8	0.4831	-1.1810
		366	578.3	172.3	2.0983	-2.6712
11402	05668568	182	237.4	509.1	-3.0575	2.0498
		270	371.6	118.5	-1.0407	-3.4207
		277	415.4	508.2	-0.3547	2.0290
		1340	242.0	207.7	-2.9984	-2.1762
		1841	262.1	326.2	-2.6839	-0.5092
		1842	157.5	567.4	-4.2879	2.8679
		1848	682.3	559.7	3.6699	2.7720
		1849	660.5	263.5	3.3429	-1.3966
		1850	573.3	68.3	2.0425	-4.1227
		1851	478.7	289.3	0.5900	-1.0328
11403	05668638	182	105.3	139.8	-5.0829	-3.1791
		272	768.6	589.1	4.9905	3.2282
		277	292.3	137.9	-2.2422	-3.1520
		1842	21.4	197.5	-6.3849	-2.3939
		1843	143.8	414.5	-4.4021	0.7241
		1845	476.4	457.7	0.5650	1.3209
		1847	715.1	677.6	4.1902	4.4928
		1848	563.2	200.9	1.8630	-2.2677
11404	05668708	272	642.6	229.0	3.0715	-1.8784
		273	689.3	439.7	3.7751	1.0771
		275	323.4	492.1	-1.7435	1.8095
		1339	69.5	459.4	-5.6332	1.3485
		1844	296.7	322.7	-2.1604	-0.5572
		1846	562.5	595.6	1.8706	3.2604
		1847	586.0	323.3	2.2143	-0.5604
		1853	680.1	41.6	3.6926	-4.5038
11405	05663778	273	565.7	84.5	1.9119	-3.8778
		274	509.5	457.0	1.0651	1.3158
		1060	403.7	369.6	-0.5411	0.1044
		1061	546.6	401.3	1.6136	0.5374

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
11501	05704478	296	344.5	507.0	-1.4298	2.0143
		304	193.6	538.9	-3.7298	2.4693
		313	225.4	357.4	-3.2381	-0.0710
11502	05704548	295	477.4	612.7	0.5850	3.4939
		296	206.4	98.2	-3.5496	-3.7322
		304	52.3	130.9	-5.9152	-3.3470
		1835	622.3	264.6	2.7624	-1.3824
		1890	527.6	389.2	1.3325	0.3617
		1891	460.6	258.9	0.3135	-1.4558
		1892	155.0	215.8	-4.3173	-2.0740
		1893	347.1	562.6	-1.3901	2.7931
		1894	174.3	378.1	-4.0061	0.2173
11504	05704688	208	135.5	453.0	-4.6095	1.2632
		209	412.2	639.0	-0.4041	3.8599
		211	641.3	377.6	3.0435	0.2031
		212	148.7	290.8	-4.4061	-1.0151
		213	443.2	37.8	0.0430	-4.5479
		214	601.6	122.4	2.4587	-3.3622
		298	397.5	428.5	-0.6299	0.9178
		299	167.9	97.7	-4.1344	-3.7505
		1887	812.1	291.5	5.6645	-0.9857
		1888	415.2	301.7	-0.3701	-0.8548
		1889	288.7	132.3	-2.2981	-3.2300
11505	05704758	209	266.6	259.4	-2.6217	-1.4435
		297	749.7	99.7	4.7554	-3.6862
		298	258.1	49.2	-2.7679	-4.4162
		1104	768.7	59.9	5.0862	-4.2546
		1105	792.5	140.3	5.4084	-3.1136
11602	05740598	182	394.3	490.5	-0.6746	1.7815
		270	493.6	70.1	0.8157	-4.0974
		277	586.9	457.2	2.2296	1.3137
		281	181.1	536.7	-3.9206	2.4363
		282	196.5	238.0	-3.6802	-1.0512
		1835	116.8	181.6	-4.8997	-2.5723
		1836	90.7	460.8	-5.3045	1.3682
		1840	366.9	180.3	-1.1102	-2.5537
		1841	401.7	297.5	-0.5745	-0.9158
		1842	309.3	566.4	-1.9654	2.8468
11603	05740668	182	264.3	102.7	-2.6688	-3.6543

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
11603	05740668	183	52.9	371.4	-5.8828	0.1077
		276	430.7	518.2	-0.1232	2.1681
		277	463.3	73.7	0.3550	-4.0452
		281	44.1	149.0	-6.0394	-3.0885
		1837	166.0	481.9	-4.1437	1.6709
		1843	334.8	385.5	-1.5816	0.3199
		1845	691.6	372.1	3.8105	0.1280
		1848	753.7	93.7	4.8240	-3.7756
11604	05740738	275	585.1	460.3	2.2026	1.3579
		276	314.4	163.4	-1.9063	-2.7919
		278	219.0	619.4	-3.3543	3.5944
		280	125.3	340.5	-4.7645	-0.3175
		1837	44.8	125.0	-6.0313	-3.4401
		1838	33.5	416.3	-6.1942	0.7398
		1839	309.6	472.7	-1.9598	1.5392
		1844	547.7	283.2	1.6337	-1.1201
11605	05740808	274	803.8	399.5	5.5230	0.5342
		275	465.1	100.4	0.3807	-3.6709
		278	82.7	247.8	-5.4139	-1.6392
		1060	692.6	323.7	3.8281	-0.5495
11606	05741858	66	200.9	654.9	-3.6514	4.0861
		160	125.8	570.1	-4.7893	2.8971
		176	272.1	512.2	-2.5348	2.0807
		177	447.0	645.8	0.1198	3.9465
11608	05741928	66	324.5	685.4	-1.7450	4.5119
		138	114.3	591.9	-4.9836	3.2139
		160	241.7	597.9	-3.0027	3.2885
		176	394.5	539.9	-0.6719	2.4696
		177	576.9	677.8	2.0906	4.4282
		223	36.7	302.4	-6.1353	-0.8839
11610	05741998	66	377.4	678.3	-0.9376	4.4071
		138	156.1	572.2	-4.3139	2.9261
		160	292.4	532.9	-2.2258	3.0710
		176	450.8	531.0	0.1798	2.3391
		177	638.0	681.6	3.0120	4.4968
11702	05776508	223	72.3	269.3	-5.5866	-1.3503
		296	447.0	493.4	0.1203	1.8171
		304	282.3	553.8	-2.3788	2.6702

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
11702	05776508	313	295.0	368.3	-2.1860	0.0798
		1891	733.4	537.8	4.4521	3.3305
		1892	409.0	620.0	-0.4553	3.5897
		1900	214.0	650.0	-3.4458	4.0241
11704	05776648	200	74.3	606.8	-5.6152	3.4361
		212	514.6	659.7	1.1463	4.1599
		213	790.9	344.0	5.3254	-0.2561
		295	527.9	204.1	1.3309	-2.2224
		299	516.6	452.6	1.1702	1.2483
		300	240.7	344.6	-3.0072	-0.2493
		301	221.3	504.9	-3.3022	1.9927
		1888	789.3	614.2	5.3182	3.6066
		1889	645.6	468.7	2.1112	1.4784
		1893	381.4	169.6	-0.8915	-2.7014
		1897	44.7	446.4	-6.0207	1.1651
11705	05776718	208	378.0	465.2	-0.9229	1.4314
		209	678.1	616.2	3.6126	3.5788
		210	390.9	665.3	-0.7284	4.2316
		212	385.4	285.8	-0.8218	-1.0763
		298	655.2	394.5	3.2578	0.4400
		299	394.9	76.5	-0.6872	-4.0083
		301	88.9	127.3	-5.3391	-3.3725
		1888	668.0	255.4	3.4562	-1.5084
		1889	525.3	95.4	1.2972	-3.7404
		1895	261.6	276.1	-2.6946	-1.2105
		1896	102.1	343.9	-5.1205	-0.2713
11706	05776738	208	255.1	94.4	-2.8095	-3.7726
		209	553.4	254.0	1.7188	-1.5251
		210	261.1	293.4	-2.7007	-0.9663
		298	533.5	28.2	1.5092	-4.6831
11801	05812488	168	285.3	631.3	-2.3359	4.4653
		193	338.9	363.4	-0.7649	0.0063
		232	219.5	323.3	-3.3293	-0.5498
		270	780.3	321.4	5.1678	-0.5799
		282	509.2	582.1	1.0665	3.0626
		338	340.3	622.2	-1.4893	3.6247
		365	674.3	115.3	3.5707	-3.4690
11802	05812558	168	127.6	280.7	-4.7266	-1.1599
		180	211.1	657.7	-3.4880	4.1359

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
11302	05312558	182	594.3	352.1	2.3391	-0.1581
		183	407.5	661.2	-0.4764	4.1738
		277	785.7	285.5	5.2583	-1.0783
		281	371.4	437.3	-1.0248	1.0413
		282	362.3	184.0	-1.1795	-2.5009
		337	145.5	386.4	-4.4509	0.3315
		338	186.2	219.0	-3.8399	-2.0217
		1829	45.5	225.5	-5.9939	-1.9706
		1833	272.7	516.6	-2.5210	2.1538
		1835	263.5	93.5	-2.6820	-3.7858
		1836	264.6	378.6	-2.6433	0.2263
		1840	527.7	49.7	1.3400	-4.3825
		1841	578.9	158.4	2.1081	-2.8636
		1842	511.2	442.3	1.0895	1.1043
		1843	699.6	614.5	3.9409	3.5627
11303	05312628	150	50.0	546.5	-5.9821	2.5848
		180	64.4	290.1	-5.7033	-1.0407
		181	266.4	615.8	-2.6258	3.5424
		183	269.7	294.4	-2.5708	-0.9536
		276	685.6	375.1	3.7193	0.1695
		280	511.8	596.0	1.1060	3.2613
		281	235.7	66.0	-3.1061	-4.1818
		283	63.5	395.6	-5.7212	0.4530
		1830	194.3	418.7	-3.7090	0.7370
		1833	136.3	146.6	-4.6045	-3.0597
		1837	401.6	387.4	-0.5708	0.3438
		1839	710.3	689.5	4.1206	4.6670
		1843	570.4	256.7	1.9766	-1.4900
11304	05312698	181	123.0	243.0	-4.8033	-1.6933
		273	489.1	505.1	0.7538	1.9853
		279	259.1	480.9	-2.7264	1.6585
		280	373.6	224.6	-1.0059	-1.9302
		303	215.0	635.0	-3.4189	3.8167
		1837	268.5	11.9	-2.6176	-4.9547
		1838	277.0	323.6	-2.4587	-0.5424
		1839	575.0	330.6	2.0477	-0.4575
11305	05312768	278	355.9	137.4	-1.2789	-3.1504
		279	118.2	109.3	-4.3953	-3.6136
		303	64.0	262.5	-5.7099	-1.4324
		304	106.6	342.2	-5.0529	-0.2924

Rev/ Time	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
11901	05348538	166	280.3	263.2	-2.4080	-1.3983
		167	196.6	262.5	-3.6816	-1.4144
		240	536.1	43.7	1.4634	-4.4743
		296	666.9	407.8	3.4329	0.6184
		304	491.4	497.6	0.7910	1.8713
		312	244.3	662.9	-2.9768	4.1994
		313	481.1	310.3	0.6257	-0.7462
		363	680.6	200.0	3.6509	-2.2913
11902	05848608	201	332.8	643.6	-1.6130	3.9219
		202	195.3	441.1	-3.6957	1.0954
		300	675.8	609.9	3.5802	3.4826
		304	341.0	74.7	-1.5079	-4.0473
		307	425.0	490.5	-0.2093	1.7759
		1892	493.2	123.6	0.8071	-3.3554
		1893	737.8	405.3	5.4334	0.6052
		1894	554.6	281.0	1.7386	-1.1582
		1900	270.2	185.6	-2.5755	-2.4892
		1901	151.2	60.7	-4.4028	-4.3082
		1903	80.8	523.0	-5.4771	2.2433
11903	05848678	200	375.2	540.7	-0.9636	2.4795
		201	187.8	253.6	-3.8133	-1.5411
		300	544.1	229.9	1.5780	-1.8704
		301	535.3	402.4	1.4502	0.5397
		303	213.5	500.5	-3.4224	1.9251
		308	147.6	623.4	-4.4681	3.6550
		1893	670.2	24.7	3.5474	-4.7506
		1897	333.4	374.4	-1.6048	0.1594
11904	05848748	200	247.1	175.4	-2.9252	-2.6334
		205	204.5	681.6	-3.5960	4.4734
		206	86.9	512.4	-5.3729	2.0936
		207	533.0	434.4	1.4159	0.9910
		208	747.5	353.3	4.6623	-0.1345
		210	766.6	563.1	4.9574	2.8506
		212	742.0	161.2	4.6058	-2.8278
		301	414.8	39.0	-0.3850	-4.5421
		303	78.8	136.9	-5.4989	-3.2453
		310	341.7	503.2	-1.4732	1.9603
		1895	612.7	171.3	2.6197	-2.6876
		1896	446.3	270.8	0.0975	-1.2931
		1898	93.7	323.4	-5.2505	-0.5669
		1899	269.3	338.4	-2.5735	0.3596

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
11905	05348818	205	63.4	325.0	-5.7183	-0.5494
		207	414.1	34.5	-0.3956	-3.8984
		208	633.3	9.9	2.9739	-4.9516
		210	646.0	224.0	3.1213	-1.9511
		920	299.6	378.9	-2.1147	0.2281
		922	109.8	278.2	-5.0038	-1.2022
		923	270.5	426.4	-2.5532	0.8926
12001	05334518	49	213.8	379.4	-3.4128	0.2367
		66	196.0	291.0	-3.6878	-1.0066
		149	434.3	462.2	-0.0712	1.3827
		161	207.6	350.8	-3.5078	-0.1636
		198	376.9	650.0	-0.9419	4.0121
		229	107.3	602.6	-5.0991	3.3717
		232	182.5	643.1	-3.9306	3.9329
		233	99.5	481.9	-5.1702	1.6679
12002	05834588	365	649.9	363.5	3.1765	-0.0011
		168	438.9	601.5	0.0020	3.3374
		198	523.6	252.2	1.2697	-1.5482
		229	240.2	198.9	-3.0249	-2.2947
		232	320.4	240.7	-1.8093	-1.7034
		282	690.6	456.1	3.7951	1.3096
		338	500.3	526.9	0.9298	2.2909
12003	05884658	342	242.6	675.0	-3.0027	4.3788
		347	79.3	508.1	-5.4901	2.0400
		1824	231.0	426.4	-3.1508	0.8988
		1829	338.0	556.4	-1.5276	2.7090
		1835	569.8	383.9	1.9635	0.2881
		1827	184.0	360.0	-3.8703	-0.0462
		1828	101.6	519.6	-5.1458	2.1862
12004	05834728	1830	559.6	627.3	1.8229	3.6983
		1832	210.3	453.5	-3.4716	1.2637
		1833	463.9	350.1	0.3628	-0.1918
		1837	783.0	551.0	5.2032	2.6779
		150	201.7	350.2	-3.5979	-0.1755
12004	05834728	181	461.2	386.6	0.3309	0.3242
		183	449.8	35.9	0.1493	-4.5829
		279	621.4	618.1	2.7555	3.5833
		283	216.8	181.3	-3.3814	-2.5538
		331	401.0	608.2	-0.5749	3.4261
		335	98.6	611.5	-5.2411	3.4954

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
12004	05884728	1830	372.3	182.5	-1.0286	-2.5262
		1831	263.2	484.1	-2.6657	1.6965
		1834	97.7	341.2	-5.1900	-0.3152
		1837	604.2	115.8	2.5005	-3.4633
		1838	636.1	448.1	2.9685	1.1854
12005	05884798	278	683.1	165.9	3.6953	-2.7616
		279	434.1	174.3	-0.0911	-2.6406
		331	208.4	158.9	-3.5111	-2.8722
		800	219.8	387.2	-3.3215	0.3442
		803	378.4	353.1	-0.9237	-0.1374
		804	418.9	431.4	-0.3058	0.9550
		861	461.3	384.1	0.3329	0.2916
12103	05886548	296	757.0	241.2	4.8183	-1.7017
		304	579.1	358.5	2.1084	-0.0670
		312	316.0	571.8	-1.8636	2.9253
		313	543.2	172.9	1.5645	-2.6573
		1892	747.0	377.2	4.6521	0.2051
		1900	517.2	481.2	1.1818	1.6498
		1901	372.5	374.4	-1.0122	0.1654
12104	05920638	201	462.5	452.9	0.3546	1.2573
		202	290.6	264.3	-2.2570	-1.3729
		203	142.2	499.2	-4.5121	1.9183
		307	552.3	276.9	1.7035	-1.2054
		309	316.6	595.0	-1.8557	3.2511
		312	132.7	82.6	-4.6774	-3.9892
		1894	667.6	41.2	3.4990	-4.5060
		1897	630.2	549.6	2.8862	2.6217
		1903	162.3	374.0	-4.1949	0.1641
12105	05920708	1904	84.0	305.3	-5.3970	-0.8165
		200	522.4	246.9	1.2501	-1.6197
		204	75.3	391.0	-5.5345	0.3925
		206	370.8	639.7	-1.0339	3.8735
		301	680.3	74.7	3.6816	-4.0331
		303	339.2	233.7	-1.5252	-1.7999
		308	269.1	378.7	-2.5750	-0.2325
		309	141.3	115.2	-4.5354	-3.5088
		310	645.6	576.5	3.1174	3.0072
		1896	736.3	311.8	4.4996	-0.7113
		1897	464.7	76.1	0.3763	-4.0072
		1898	372.4	435.5	-1.0099	1.0206

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
12105	05920708	1899	562.7	466.5	1.8660	1.4472
12106	05920778	205	314.1	338.3	-1.8965	-0.3317
		206	182.3	175.6	-2.9035	-2.6313
		310	465.2	118.6	0.3811	-3.4102
		920	565.7	352.7	1.8772	-0.1417
		921	337.4	371.7	-1.5429	0.1343
		922	361.8	275.9	-1.1795	-1.2079
		923	533.9	411.8	1.4272	0.6862
12109	05921898	296	531.2	449.9	1.3908	1.2181
		304	227.0	495.1	-3.2148	1.8615
		313	266.2	148.2	-2.6363	-3.0007
12201	05956478	49	237.2	364.1	-3.0599	0.0225
		229	148.1	597.4	-4.4496	3.2924
		232	238.2	621.0	-3.0599	3.6152
12202	05956548	168	536.8	569.3	1.4823	2.8871
		229	266.5	211.7	-2.6274	-2.1124
		232	362.0	236.1	-1.1796	-1.7686
		282	784.8	382.5	5.2317	0.2865
		337	536.0	667.3	2.2281	4.2807
		338	593.2	484.4	2.3266	1.6968
		342	327.6	682.6	-1.6957	4.4773
		347	124.8	550.2	-4.7866	2.6324
		1824	288.5	434.2	-2.2800	1.0050
		1829	420.7	543.7	-0.2735	2.5274
		1835	649.8	332.6	3.1772	-0.4291
		1836	724.7	608.8	4.3229	3.4916
12203	05956618	168	356.0	106.5	-1.2782	-3.5873
		180	537.9	479.0	1.4949	1.6196
		183	773.9	405.4	5.0653	0.6101
		281	685.1	179.3	3.7235	-2.5631
		283	555.3	597.4	1.7625	3.2865
		336	362.9	654.8	-1.1538	4.0845
		337	405.7	209.5	-0.5206	-2.1413
		338	414.4	20.0	-0.3910	-4.8020
		1827	290.8	361.3	-2.2478	-0.0129
		1828	203.3	544.9	-3.5047	2.5548
		1830	714.3	567.6	4.1570	2.8981
		1832	324.3	454.2	-1.7303	1.2830
		1833	587.1	301.2	2.2301	-0.8685

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
12203	05956618	1836	548.7	155.4	1.6436	-2.9023
12204	05956638	150	387.3	324.2	-0.7852	-0.5066
		153	320.7	497.4	-1.7825	1.9447
		180	376.4	22.9	-0.9547	-4.7873
		181	664.4	316.6	3.3966	-0.6113
		283	391.5	144.2	-0.7339	-3.0552
		331	617.4	561.5	2.6942	2.8696
		335	288.6	630.6	-2.2799	3.8309
		336	190.2	198.7	-3.7697	-2.3052
		1825	167.5	566.2	-4.1205	2.9199
		1826	52.5	400.1	-5.8776	0.5498
		1830	553.7	119.6	1.7270	-3.4004
		1831	463.0	455.8	0.3661	1.3532
		1834	275.5	337.2	-2.4713	-0.3212
		1837	774.6	15.5	5.2116	-4.9091
12205	05956758	279	676.4	75.4	3.6208	-4.0218
		331	446.7	96.6	0.1010	-3.7198
		339	227.2	329.5	-3.2111	-0.4564
		800	465.8	346.7	0.3988	-0.2237
		801	410.7	339.6	-0.4351	-0.3198
		803	631.4	276.9	2.9015	-1.2035
		804	676.4	355.4	3.5810	-0.1011
		805	497.0	427.0	0.8750	0.8980
		861	716.4	293.2	4.1901	-0.9725
12301	05992458	166	209.3	535.5	-3.4894	2.4196
		167	108.4	569.9	-5.0612	2.9098
		296	678.6	527.8	3.6110	2.3128
		304	515.2	667.6	1.1569	4.2687
		313	451.1	504.6	0.1832	1.9736
12302	05992529	166	349.3	135.9	-1.3710	-3.1743
		167	242.3	170.0	-2.9877	-2.7026
		304	670.3	276.7	3.4914	-1.2115
		312	412.4	535.6	-0.3990	2.4140
		313	603.8	106.1	2.4958	-3.5933
		317	243.2	592.0	-2.9769	3.2111
		1900	621.8	406.0	2.7532	0.5979
		1901	450.0	329.5	0.1585	-0.4681
12303	05992598	201	641.0	377.2	3.0453	0.1955
		202	436.3	215.0	-0.0553	-2.0657

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
12303	05992593	203	297.7	484.1	-2.1396	1.7010
		307	712.9	131.5	4.1510	-2.5393
		309	497.4	550.1	0.8879	2.6160
		312	244.5	56.2	-2.9735	-4.3178
		315	261.0	595.5	-2.7040	3.2594
		317	67.9	113.5	-5.6713	-3.5879
		318	60.7	643.2	-5.8867	3.9739
		1902	108.8	394.0	-5.0145	0.4348
		1903	307.1	351.4	-2.0008	-0.1524
		1904	215.2	294.1	-3.3957	-0.9580
12305	05992738	205	561.2	326.0	1.8407	-0.5183
		206	421.5	170.1	-0.2810	-2.6915
		310	706.3	61.2	4.0919	-4.2267
		314	116.2	226.5	-4.9079	-1.9285
		921	587.8	357.7	2.2417	-0.0740
		922	611.0	245.2	2.5932	-1.6473
		923	787.2	361.6	5.2694	-0.0024
12402	06028508	150	421.5	150.5	-0.2826	-2.9691
		153	373.5	340.4	-0.9976	-0.3111
		181	688.6	95.9	3.8052	-3.7385
		331	671.5	355.2	3.5063	-0.1100
		335	351.8	487.0	-1.3136	1.7380
		336	212.9	61.8	-3.4528	-4.2491
		339	488.6	643.9	0.7542	3.9341
		340	164.2	562.1	-4.1830	2.7965
		800	722.6	609.7	4.2916	3.5056
		801	663.5	614.4	3.3920	3.5480
		1818	41.2	410.0	-6.0719	0.6546
		1826	90.3	293.3	-5.3003	-0.9877
		1834	312.2	183.4	-1.9378	-2.5085
12405	06028718	150	736.4	306.1	4.4964	-0.7910
		153	675.6	504.1	3.5680	1.9875
		283	723.4	113.0	4.3405	-3.4980
		335	644.6	652.8	3.1128	4.0946
		336	512.9	205.0	1.1070	-2.2050
		341	108.2	209.0	-5.0316	-2.1802
		1813	306.0	565.5	-2.0146	2.8388
		1819	215.9	316.3	-3.3829	-0.6443
		1820	96.7	438.8	-5.2052	1.0657
		1825	507.4	608.0	1.0402	3.4327
		1826	369.8	446.9	-1.0477	1.1790

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
12405	06028718	1834	617.2	339.6	2.6864	-0.3282
12408	06029838	176	593.9	521.2	2.3402	2.2118
		223	86.9	502.6	-5.3689	1.9539
12501	06064418	204	194.5	217.0	-3.7156	-2.0495
		206	542.5	370.5	1.5562	0.0971
		308	391.7	126.3	-0.7359	-3.3111
		314	260.6	493.2	-2.7043	1.8277
		1898	503.9	149.1	0.9678	-2.9943
		1899	690.8	114.7	3.8274	-3.4790
		1906	115.1	354.3	-4.9214	-0.1237
12503	06064558	303	655.5	64.6	3.3106	-4.1776
		315	170.4	102.5	-4.0871	-3.6832
12505	06064698	203	421.8	49.3	-0.2762	-4.3874
		204	621.1	430.6	2.7431	0.9456
		309	651.3	92.3	3.2263	-3.7841
		315	381.3	177.7	-0.8909	-2.5846
		1905	311.3	340.7	-1.9332	-0.3008
		1906	520.2	568.9	1.2324	2.8836
		1908	62.8	619.4	-5.8236	3.6275
12601	06100328	49	323.8	278.2	-1.7560	-1.1857
		66	263.2	225.6	-2.6780	-1.9229
		70	98.2	420.8	-5.1807	0.8096
		161	304.0	261.6	-2.0573	-1.4174
		162	86.7	475.0	-5.3701	1.5691
		229	291.6	511.9	-2.2341	2.0853
		232	403.1	494.8	-0.5424	1.8384
		233	229.4	421.3	-3.1763	0.8221
		357	98.2	531.5	-5.2288	3.0750
		367	40.9	495.1	-6.1008	1.8548
12602	06100398	168	718.8	415.6	4.2204	0.7386
		229	324.2	184.4	-1.7574	-2.4947
		232	438.4	170.3	-0.0265	-2.6939
		338	757.8	316.9	4.8216	-0.6442
		342	514.9	603.4	1.1527	3.3635
		347	243.5	560.5	-2.9677	2.7694
		1316	109.7	531.3	-5.0156	2.3643
		1824	410.4	378.4	-0.4385	0.2162
		1829	587.0	431.6	2.2280	0.9527

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
12602	06100398	1835	769.3	162.3	5.0333	-2.8046
12603	06100463	336	695.8	493.2	3.8731	1.8333
		337	635.7	30.2	3.0078	-4.6624
		341	302.7	580.9	-2.0655	3.0519
		342	349.4	133.6	-1.3783	-3.2083
		346	77.3	559.8	-5.5495	2.7713
		1819	424.4	666.4	-0.2186	4.2476
		1821	298.4	246.5	-2.1423	-1.6255
		1822	191.9	436.3	-3.7454	1.0343
		1827	554.4	219.3	1.7333	-2.0116
		1828	502.7	440.2	0.9618	1.0756
		1832	612.6	300.8	2.6154	-0.8761
		1834	609.7	599.8	5.6376	3.4081
12604	06100536	150	759.8	111.0	4.9090	-3.5317
		153	725.7	321.2	4.3319	-0.5827
		335	712.5	483.0	4.1266	1.6946
		336	534.3	45.9	1.4414	-4.4335
		340	510.4	600.4	1.0854	3.3246
		341	129.8	126.2	-4.7108	-3.3586
		343	110.7	618.0	-5.0480	3.5914
		1818	365.3	453.4	-1.1163	1.2687
		1819	249.8	214.4	-2.8738	-2.0772
		1820	138.2	365.7	-4.5658	0.0425
		1825	571.9	460.2	2.0047	1.3570
		1826	418.6	317.0	-0.3177	-0.6404
		1834	651.5	163.6	3.2135	-2.7892
12605	06100608	335	536.6	15.8	1.4835	-4.3563
		339	676.9	169.1	3.6313	-2.7102
		340	329.2	127.3	-1.6838	-3.2948
		344	162.8	401.5	-4.1867	0.5485
		345	446.6	403.7	0.1125	0.5728
		885	597.0	308.3	2.3804	-0.7665
		386	449.3	288.6	0.1457	-1.0362
		887	498.2	469.7	0.8958	1.4931
12702	06136378	166	436.5	94.9	-0.0544	-3.7497
		167	322.8	164.0	-1.7731	-2.7817
		243	187.3	581.8	-3.8339	3.0699
		312	618.4	437.2	2.7014	1.0327
		258	60.7	236.4	-5.7609	-1.8060
		317	437.5	558.7	-0.0194	2.7337

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
12702	06136378	1900	803.0	247.7	5.5307	-1.6092
		1901	603.3	233.2	2.4755	-1.8214
		1903	760.6	685.6	4.8882	4.6443
		1904	646.8	674.2	3.1462	4.3949
12703	06136448	203	608.2	361.3	2.5490	-0.0297
		249	77.7	347.0	-5.4956	-0.2319
		315	587.3	493.7	2.2387	1.8260
		317	258.6	73.0	-2.7590	-4.0785
		318	358.4	635.6	-1.2205	3.8137
		323	125.6	577.6	-4.7914	3.0174
		324	145.1	336.2	-4.4536	-0.3737
		385	121.3	436.7	-4.8246	1.0356
		1902	375.3	341.4	-0.9634	-0.2990
		1903	588.9	221.6	2.2561	-1.9816
		1904	472.6	198.7	0.4930	-2.2975
		1905	541.5	669.0	1.5571	4.2962
12704	06136518	204	682.7	233.6	3.6805	-1.8123
		314	762.0	522.6	4.8825	2.2702
		316	456.7	615.6	0.2714	3.5352
		313	178.7	161.0	-3.9607	-2.3437
		319	274.7	517.7	-2.4904	2.1709
		1905	365.7	199.3	-1.1276	-2.2844
		1906	599.6	395.0	2.4179	0.4432
		1908	132.3	546.2	-4.6690	2.5741
		1909	37.2	397.3	-6.1332	0.4750
12705	06136538	314	587.0	66.8	2.2435	-4.1402
		316	275.7	153.7	-2.4916	-2.9278
		319	94.9	58.7	-5.2773	-4.3751
12710	06137778	248	711.7	405.0	4.1160	0.5946
		250	484.4	451.1	0.6867	1.2302
		321	249.5	234.9	-2.3822	-1.7909
12802	06172358	70	209.8	113.6	-3.4953	-3.5112
		71	103.0	142.5	-5.1175	-3.1396
		162	204.2	169.2	-3.5735	-2.7220
		216	413.3	317.3	-0.3982	-0.6386
		229	453.1	168.8	0.1966	-2.7153
		232	575.8	137.0	2.0609	-3.1633
		233	369.1	87.9	-1.0739	-3.8513
		242	117.2	542.0	-4.9008	2.5153

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
12802	06172352	243	130.9	420.6	-3.9132	0.8127
		245	65.7	510.7	-5.7103	2.0754
		342	720.2	549.2	4.2419	2.6309
		347	416.8	557.5	-0.3327	2.7183
		357	233.0	272.1	-3.1278	-1.2682
		367	149.0	198.3	-4.4073	-2.3223
		1816	258.7	554.3	-2.7346	2.6815
		1821	685.5	669.9	3.7332	4.3519
		1824	576.9	344.6	2.0762	-0.2646
		1829	773.5	367.0	5.0533	0.0624
12803	06172428	341	570.0	537.9	1.9813	2.4460
		342	568.7	66.9	1.9637	-4.1423
		346	315.1	561.4	-1.8760	2.7789
		347	255.8	66.0	-2.8018	-4.1776
		352	317.3	248.6	-1.8562	-1.5957
		1815	43.1	420.5	-6.0434	0.8033
		1816	91.3	63.9	-5.3316	-4.3020
		1817	221.1	224.3	-3.3125	-1.9419
		1819	705.0	603.8	4.0233	3.4114
		1821	529.4	193.3	1.3546	-2.3745
		1822	436.3	406.2	-0.0440	0.6039
		1827	790.0	120.9	5.3788	-3.3959
		1828	768.0	356.8	4.9750	-0.0815
12804	06172498	341	402.6	71.6	-0.5701	-4.0765
		343	413.3	605.9	-0.3849	3.3983
		346	133.7	93.6	-4.5850	-3.8293
		348	204.6	636.2	-3.5809	3.8350
		350	287.2	369.4	-2.3013	0.0998
		1813	73.4	495.1	-5.5782	1.8549
		1814	162.1	399.4	-4.1986	0.5168
		1818	679.6	378.6	3.6286	0.2187
		1819	539.4	145.1	1.5094	-3.0466
		1820	433.3	327.2	-0.0939	-0.4985
		1823	656.2	684.0	3.2895	4.5443
		1826	725.2	224.9	4.3349	-1.9319
12805	06172568	343	224.1	139.4	-3.2738	-3.1376
		344	497.0	377.9	0.8729	0.2083
		345	788.9	328.8	5.3006	-0.4665
		340	658.9	53.1	3.3584	-4.3378
		349	164.9	466.6	-4.1564	1.4621
		836	788.3	205.1	5.3151	-2.2039

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
12805	06172568	1823	468.1	226.9	0.4269	-1.8986
12806	06173618	242	59.3	492.6	-5.8011	1.8228
		243	235.4	324.1	-3.0973	-0.5312
		357	384.1	94.2	-0.8497	-3.7515
		358	545.5	457.8	1.6088	1.3282
12903	06208338	249	210.0	314.3	-3.4740	-0.6754
		315	760.6	370.8	4.8581	0.1157
		318	538.9	555.7	1.5110	2.6948
		323	283.8	542.8	-2.3532	2.5191
		324	282.5	290.4	-2.3786	-1.0112
		385	266.8	396.5	-2.6103	0.4765
		1902	525.5	254.2	1.2946	-1.5238
		1903	725.5	99.4	4.3752	-3.6940
		1904	606.7	93.5	2.5390	-3.7698
		1905	732.6	557.2	4.4302	2.7532
12904	06208408	1911	40.8	345.1	-6.0701	-0.2650
		316	687.3	525.6	3.7441	2.2894
		318	360.9	98.2	-1.2033	-3.7065
		319	493.8	457.6	0.8284	1.3189
		323	98.1	84.0	-5.2114	-3.9980
		326	545.6	657.5	1.6176	4.1327
		1905	557.3	106.2	1.7836	-3.5925
		1907	92.3	427.6	-5.2731	0.9060
		1908	342.8	515.8	-1.4542	2.1398
12905	06208478	1909	229.7	376.2	-3.1710	0.1931
		316	507.0	69.7	1.0206	-4.0998
		326	357.9	199.0	-1.2443	-2.2878
13001	06244178	1908	156.5	55.6	-4.3190	-4.3698
		70	315.8	413.6	-1.8689	0.7122
		71	206.4	459.0	-3.5265	1.3513
		162	318.8	466.3	-1.8212	1.4482
		216	558.7	562.1	1.8110	2.7810
		221	98.7	419.5	-5.1731	0.7929
		223	180.0	298.8	-3.9314	-0.8964
		233	476.9	361.0	0.5653	-0.0341
		229	573.6	419.4	2.0244	0.7788
		244	217.9	608.3	-3.3688	3.4386
		357	363.4	556.6	-1.1425	2.7062
		367	265.5	504.0	-2.6303	1.9775

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
13002	06244248	242	119.0	404.9	-4.8557	0.5832
		245	56.7	386.3	-5.8262	0.3198
		347	447.8	361.7	0.1263	-0.0215
		352	536.2	525.1	1.4704	2.2631
		353	215.9	564.4	-3.3927	2.8244
		1816	278.0	385.9	-2.4408	0.3270
		1817	435.5	520.8	-0.0505	2.2034
		1821	742.1	431.6	4.5749	0.9682
13003	06244318	341	672.0	317.3	3.5147	-0.6454
		346	408.2	385.5	-0.4710	0.3153
		350	590.2	639.1	2.2899	3.8757
		351	210.2	582.9	-3.4826	3.0848
		352	377.5	67.3	-0.9529	-4.1422
		353	47.9	105.8	-5.9909	-3.7210
		1811	50.7	487.8	-5.9389	1.7506
		1814	467.5	696.0	0.4355	4.6720
		1815	98.5	295.3	-5.1738	-0.9592
		1819	814.1	363.9	5.6831	0.0279
		1820	733.7	566.3	4.4520	2.8838
		1822	520.6	205.5	1.2206	-2.2048
13004	06244388	343	593.0	456.3	2.3215	1.3019
		348	375.1	528.5	-0.9641	2.3161
		350	445.7	227.6	0.0869	-1.8914
		351	56.5	166.3	-5.8426	-2.8240
		355	127.4	570.7	-4.7539	2.9205
		1813	226.4	402.5	-3.2201	0.5622
		1814	318.2	282.5	-1.8385	-1.1216
		1820	591.6	159.4	2.3007	-2.8497
13005	06244458	344	706.8	203.4	4.0554	-2.2315
		348	194.9	63.5	-3.7280	-4.2333
		354	72.9	349.6	-5.5693	-0.1937
		349	375.4	359.5	-0.9679	-0.0420
		1823	666.7	44.8	3.5142	-4.4566
13008	06245548	242	319.3	624.5	-1.8153	3.6587
		243	488.2	429.6	0.7435	-0.9284
		244	276.7	102.3	-2.4805	-3.6569
		245	187.6	526.5	-3.8195	2.2937
		357	512.5	174.1	2.6139	-2.6435
		358	793.4	530.0	5.3697	2.3986

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
13026	06247048	297	453.1	316.0	0.3574	-0.6543
		1100	466.2	78.1	0.4014	-3.9788
		1101	58.9	187.9	-5.7969	-2.5081
		1102	173.1	59.9	-4.0619	-4.2968
		1103	373.8	77.7	-1.0048	-3.9898
		1104	453.2	480.2	0.2171	1.6398
		1105	261.6	189.5	-2.7015	-2.4255
		1106	234.0	590.0	-3.1131	3.1833
13102	06280088	163	274.5	343.2	-2.4963	-0.2712
		199	339.4	603.5	-1.5099	3.3627
		258	201.3	577.1	-3.6112	3.0017
		259	191.3	420.6	-3.7556	0.8109
13103	06280158	199	175.9	161.0	-4.0054	-2.8508
		248	279.5	401.4	-2.4207	0.5408
		249	432.3	614.9	-0.0987	3.5214
		250	198.5	503.7	-3.6494	1.9743
		321	62.3	498.1	-5.7602	1.8938
		324	504.0	577.7	0.9866	3.0011
		1902	742.3	495.2	4.5768	1.8681
		1911	260.3	678.9	-2.7301	4.4286
13104	06280228	249	270.6	143.8	-2.5715	-3.0737
		318	638.6	334.6	3.0056	-0.4060
		323	372.5	363.5	-1.0132	0.0082
		324	344.3	105.7	-1.4567	-3.6045
		327	297.3	678.3	-2.1593	4.4150
		329	75.9	571.3	-5.5774	2.9332
		385	339.3	217.1	-1.5274	-2.0393
		1909	540.2	640.8	1.5335	3.8914
		1910	269.3	463.1	-2.5710	1.4054
		1911	88.2	207.1	-5.3395	-2.2174
13105	06280298	319	635.7	269.5	3.7234	-1.3122
		322	464.0	504.3	0.3794	1.9733
		325	255.3	550.2	-2.7869	2.6249
		326	751.2	471.7	4.7108	1.5410
		327	155.5	259.7	-4.3028	-1.4513
		1025	273.6	685.8	-2.5260	4.5253
		1026	333.4	613.4	-0.8418	3.5027
		1907	267.5	306.0	-2.6031	-0.7914
		1908	536.2	355.5	1.4611	-0.1110
		1909	403.2	227.8	-0.4811	-1.8875

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
13105	06280298	1910	136.1	45.2	-4.6324	-4.5334
		1912	117.3	348.4	-4.8872	-0.2060
13106	06280368	322	312.3	50.1	-1.9450	-4.3921
		326	599.1	25.1	2.4420	-4.7295
		1004	77.6	421.3	-5.5023	0.8202
		1005	259.7	358.9	-2.7134	-0.0452
		1006	180.3	379.9	-3.9214	0.2472
		1025	107.3	229.8	-5.0455	-1.8852
		1026	222.4	157.3	-3.2990	-2.8842
		1027	365.4	250.8	-1.1279	-1.5631
13129	06283028	1061	174.3	167.3	-4.0254	-2.7541
		1062	510.9	279.4	1.0783	-1.1661
		1063	477.3	474.4	0.5806	1.5583
		1064	76.5	298.9	-5.5145	-0.9117
13202	06316138	242	202.7	383.6	-3.5812	0.2941
		243	247.7	242.4	-2.9094	-1.6876
		244	102.8	167.2	-5.1166	-2.7812
		245	129.9	378.0	-4.6911	0.2111
		347	548.4	283.9	1.6430	-1.1148
		352	662.3	431.3	3.3642	0.9512
		353	327.1	525.8	-1.6938	2.2779
		364	513.5	646.4	1.1292	3.9682
		375	185.7	658.4	-3.3841	4.1492
		386	48.9	526.4	-5.9889	2.2983
		1816	371.7	337.5	-1.0264	-0.3558
		1817	557.3	443.2	1.7818	1.1125
13203	06316208	346	566.5	289.2	1.9178	-1.0410
		350	780.1	515.5	5.1596	2.1710
		351	379.4	529.5	-0.8993	2.3276
		353	149.0	68.4	-4.4318	-4.1900
		364	339.6	192.8	-1.5234	-2.3793
		376	392.4	651.4	-0.7054	4.0349
		380	109.6	343.7	-5.0058	-0.2738
		1811	195.0	462.2	-3.6987	1.3965
		1814	660.7	598.1	3.3465	3.3096
		1815	231.4	252.7	-3.1539	-1.5436
13204	06316278	1822	656.0	88.0	3.2984	-3.8529
		348	606.3	426.1	2.5183	0.8778
		350	649.1	98.2	3.1898	-3.7068

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
13204	06316278	351	240.1	100.3	-3.0371	-3.6943
		355	347.4	519.4	-1.3344	2.1903
		376	250.2	224.3	-2.8730	-1.9398
		379	142.7	629.7	-4.5435	3.7524
		1195	357.4	667.1	-1.2385	4.2573
		1196	431.6	658.8	0.6496	4.1451
		1197	436.5	690.2	0.7249	4.5925
		1812	210.2	459.6	-3.4677	1.3612
		1813	443.1	320.3	0.0531	-0.5974
		1814	525.8	176.4	1.3000	-2.6113
13205	06316348	349	650.7	249.8	3.1938	-1.5862
		354	340.0	291.8	-1.5069	-0.9887
		355	188.4	47.4	-3.8330	-4.4718
		373	56.9	240.8	-5.8203	-1.7428
		1193	235.7	254.5	-3.0885	-1.5132
		1194	368.2	233.2	-1.0365	-1.3092
		1195	192.0	195.2	-3.7544	-2.3534
		1196	320.7	188.7	-1.8102	-2.4322
		1197	324.8	220.9	-1.7459	-1.9810
		1199	105.1	292.1	-5.0714	-0.9987
13210	06317608	66	469.3	155.3	0.4436	-2.8997
		70	308.4	522.2	-1.9765	2.2352
		71	67.0	526.7	-5.6974	2.3059
		138	307.3	257.1	-1.9975	-1.4726
		160	361.9	156.5	-1.1866	-2.8810
		162	328.8	636.0	-1.6713	3.8240
		233	593.7	531.7	2.3383	2.3645
		236	209.0	212.1	-3.4955	-2.1113
		367	223.9	673.0	-3.2905	4.3554
13302	06351978	163	301.8	326.1	-2.0842	-0.5125
		258	253.9	557.7	-2.7339	2.7256
		259	224.4	414.1	-3.2525	0.7202
13303	06352048	199	258.1	121.3	-2.7619	-3.3955
		248	399.1	337.4	-0.6121	-0.3610
		250	326.1	452.3	-1.7120	1.2502
		251	123.0	351.4	-4.8015	-0.1658
		258	95.8	124.2	-5.2359	-3.4179
		321	174.6	473.8	-4.0116	1.5561
		324	656.3	475.9	3.2756	1.5754
		328	297.0	633.1	-2.1651	4.4817

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
13303	06352048	385	666.8	580.4	3.4366	3.0561
		1911	410.7	616.3	-0.4271	3.5389
13304	06352118	323	545.7	253.3	1.6015	-1.5422
		327	497.9	591.0	0.8946	3.1873
		328	110.8	207.3	-4.9943	-2.2101
		329	251.8	520.7	-2.8414	2.2102
		385	494.4	109.8	0.8247	-3.5463
		1907	616.5	616.3	2.6825	3.5571
		1909	746.2	509.5	4.6361	2.0707
		1910	450.3	372.3	0.1647	0.1253
		1911	231.1	140.8	-3.1703	-3.1241
13305	06352183	1912	469.3	639.4	0.4627	4.5770
		322	690.2	375.4	3.7877	0.1728
		325	479.0	453.4	0.6039	1.3303
		327	354.5	167.6	-1.2995	-2.7302
		329	102.2	97.4	-5.1464	-3.8032
		1025	504.6	603.2	0.9964	3.3616
		1026	613.3	504.0	2.6295	1.9720
		1027	763.6	572.6	4.9112	2.9878
		1907	472.6	197.8	0.4925	-2.3101
		1909	607.9	91.6	2.5590	-3.7975
		1912	321.7	268.0	-1.7879	-1.3257
		1913	142.0	685.0	-4.5904	4.5448
13306	06352258	1004	314.4	358.5	-1.8903	-0.0522
		1005	497.9	256.1	0.8734	-1.4939
		1006	418.1	292.0	-0.3264	-0.9894
		1025	336.4	139.4	-1.5751	-3.1257
		1026	449.9	43.0	0.1504	-4.4769
		1027	597.6	118.8	2.3964	-3.4155
13320	06355408	1094	695.4	154.7	3.8352	-2.9152
		1095	780.1	269.9	5.1741	-1.2985
13401	06387958	70	378.2	385.3	-0.9274	0.3111
		71	262.1	466.2	-2.6816	1.4479
		162	398.7	429.0	-0.6140	0.9198
		216	690.4	430.6	3.7373	0.9401
		222	145.3	495.1	-4.4647	1.3550
		223	177.2	346.3	-3.9692	-0.2280
		233	542.2	286.3	1.5476	-1.0829
		243	483.7	635.7	0.6737	3.8112

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
13401	06387958	244	322.1	593.0	-1.7728	3.2159
		347	794.3	611.7	5.4033	3.5642
		357	478.3	488.9	0.5932	1.7516
		361	167.9	615.5	-4.1443	3.5438
		367	348.6	480.1	-1.3696	1.6364
13402	06388028	242	310.6	348.0	-1.9499	-0.2055
		243	338.2	202.9	-1.5447	-2.2396
		244	170.5	157.1	-4.0362	-2.9064
		245	231.2	356.1	-3.1510	-0.0914
		347	658.6	193.8	3.3168	-2.3756
		353	462.6	466.0	0.3556	1.4335
		364	673.3	553.3	3.5326	2.6744
		375	325.1	626.5	-1.7238	3.6850
		386	157.7	522.4	-4.2775	2.2373
		1806	97.1	458.6	-5.2059	1.3387
		1815	571.2	632.2	2.0022	3.7728
		1816	485.4	272.1	0.6396	-1.2768
		1817	639.9	345.9	3.7849	-0.2462
13403	06388098	346	746.9	137.8	4.6920	-3.1604
		351	588.3	409.2	2.2454	0.6372
		364	507.6	73.5	1.0267	-4.0533
		375	147.2	141.2	-4.4409	-3.1367
		376	612.7	533.3	2.6228	2.3824
		377	407.9	650.3	-0.4706	4.0194
		380	284.4	264.6	-2.3523	-1.3743
		1809	192.9	484.7	-3.7316	1.7119
		1810	102.2	338.1	-5.1190	-0.3538
		1811	388.8	371.8	-0.7661	0.1237
		1813	813.2	589.3	5.6871	3.2529
		1815	402.5	151.2	-0.5727	-2.9638
13404	06388168	376	475.5	112.3	0.5359	-3.5063
		377	263.4	225.2	-2.6750	-1.9251
		378	481.5	639.1	0.6472	3.8642
		379	386.7	563.0	-0.7883	2.7979
		1193	663.7	619.7	3.3962	3.6218
		1194	792.3	569.3	5.3543	2.9500
		1195	614.2	565.6	2.6471	2.8421
		1196	742.7	533.3	4.5868	2.4123
		1197	749.0	565.5	4.6868	2.8782
		1199	531.6	636.2	1.4101	4.5401
		1812	453.4	366.1	0.2112	0.0418

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
13404	06388168	1813	679.7	181.6	3.6393	-2.5418
		1814	742.3	21.5	4.6897	-4.8117
13405	06388238	354	617.7	222.0	2.6928	-1.9732
		378	327.0	212.2	-1.7134	-2.1034
		379	233.3	134.9	-3.1375	-3.2018
		1193	511.2	198.7	1.0775	-2.2956
		1194	642.4	152.5	3.0751	-2.9429
		1195	466.3	140.2	0.2957	-3.1134
		1196	593.7	113.9	2.3381	-3.4824
		1197	600.3	145.7	2.4341	-3.0384
		1199	379.3	261.8	-0.9158	-1.4096
13503	06424008	320	415.9	670.4	-0.3496	4.3018
		327	724.0	450.8	4.2986	1.2349
		328	281.1	125.7	-2.4124	-3.3296
		329	463.8	422.5	0.3729	0.8259
		334	224.7	590.8	-3.2612	3.1926
		1910	650.2	235.2	3.1855	-1.7978
		1911	397.8	38.2	-0.6437	-4.5551
		1912	704.5	557.3	4.0033	2.7392
		1914	285.2	428.8	-2.3306	0.9245
13504	06424078	320	276.3	254.1	-2.4752	-1.5212
		327	594.9	39.4	2.3727	-4.5318
		330	331.3	590.7	-1.6318	3.1861
		334	81.2	173.3	-5.4527	-2.7078
		1912	574.2	149.2	2.0369	-2.9950
		1913	413.5	629.5	-0.3846	3.7269
		1914	150.0	11.2	-4.4356	-5.0367
13508	06425268	251	477.0	312.5	0.5656	-0.7129
		252	248.1	355.7	-2.8956	-0.0993
		253	102.2	24.9	-5.1833	-4.8811
		321	550.2	544.8	1.6844	2.5361
13510	06425338	251	732.1	421.2	4.4210	0.8217
		252	502.7	468.7	0.9610	1.4720
		253	353.8	119.2	-1.3131	-3.4129
		321	800.1	649.6	5.5003	4.1365
13601	06459848	71	305.7	445.5	-2.0214	1.1560
		162	443.2	386.9	0.0570	0.3277
		222	180.2	493.8	-3.9280	1.8360

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
13601	06459848	223	189.3	351.4	-3.7858	-0.1574
		243	566.3	567.2	1.9249	2.8506
		244	387.5	552.5	-0.7783	2.6452
		357	539.1	429.2	1.5056	0.9142
		361	221.4	603.8	-3.3149	3.3732
		362	81.3	633.2	-5.5342	3.8147
		367	399.3	442.6	-0.6036	1.1086
13602	06459918	242	408.8	271.3	-0.4700	-1.2858
		243	416.0	128.2	-0.3677	-3.2887
		244	232.8	108.9	-3.1472	-3.5786
		245	324.2	291.5	-1.7480	-1.0004
		353	581.8	362.0	2.1484	-0.0252
		361	57.9	162.2	-5.8221	-2.8878
		375	455.7	543.6	0.2553	2.5195
		380	611.7	639.6	2.6123	3.8846
		386	265.0	468.1	-2.6370	1.4740
		387	45.0	561.3	-6.0698	2.7927
		1805	95.3	669.3	-5.3341	4.3361
		1806	192.0	417.1	-3.7449	0.7605
		1815	714.2	508.4	4.1490	2.0466
		1816	578.6	172.0	2.1018	-2.6792
13603	06459988	351	766.6	275.8	4.9628	-1.2222
		375	286.8	75.8	-2.3288	-4.0364
		377	613.1	550.5	2.6288	2.6261
		380	444.9	178.9	0.0729	-2.5776
		381	315.7	605.8	-1.8695	3.3986
		386	92.5	5.5	-5.3504	-5.1859
		388	268.1	232.4	-2.6014	-1.8271
		1807	82.3	261.8	-5.4225	-1.4420
		1809	373.4	418.7	-0.9961	0.7801
		1810	261.7	284.3	-2.6921	-1.0996
		1811	563.1	270.8	1.8653	-1.2986
		1812	812.8	655.0	5.7053	4.2275
13604	06460058	1815	549.9	46.3	1.6793	-4.4361
		377	481.9	140.3	0.6335	-3.1157
		381	177.4	191.4	-3.9762	-2.4129
13702	06495828	1812	686.8	257.2	3.7397	-1.4871
		251	230.9	242.9	-2.4096	-1.6814
		252	168.3	335.8	-4.1061	-0.3811
		261	95.7	638.1	-5.4679	3.8835

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
13702	06495828	321	370.7	338.0	-1.0432	-0.3520
		1911	662.1	393.6	3.3595	0.4193
13703	06495898	262	237.0	259.4	-3.0707	-1.4513
		263	256.0	547.6	-2.7773	2.5856
		320	607.6	559.1	2.5458	2.7448
		328	411.1	27.4	-0.4430	-4.7065
		329	630.7	297.8	2.3875	-0.9238
		334	401.6	510.3	-0.5655	2.0557
		1914	449.5	331.4	0.1483	-0.4476
		1915	104.8	118.2	-5.1005	-3.5001
13704	06495968	263	122.8	117.8	-4.8211	-3.4902
		264	161.5	287.1	-4.2118	-1.0683
		265	426.5	664.5	-0.1918	4.2132
		266	493.3	386.9	0.8131	0.3238
		320	484.8	135.9	0.6758	-3.1808
		330	566.0	483.4	1.9130	1.6729
		332	232.2	670.2	-3.1645	4.3052
		333	130.5	528.0	-4.6943	2.3148
		334	275.9	81.3	-2.4961	-3.9516
		1913	652.0	509.4	3.2069	2.0454
13705	06496038	265	259.7	199.2	-2.7330	-2.2950
		332	58.9	204.0	-5.7949	-2.2780
		1800	226.6	317.0	-3.2234	-0.6410
13731	06499678	31	630.8	349.0	2.8888	-0.2061
		34	519.7	501.1	1.2196	1.9220
		35	364.3	308.1	-1.1337	-0.7709
		38	491.1	244.6	0.7741	-1.6624
		828	680.2	218.7	3.6447	-2.0271
		829	192.4	521.5	-3.7464	2.2193
13301	06531738	71	326.4	406.1	-1.7102	0.6035
		223	184.3	342.4	-3.8546	-0.2848
		242	632.0	607.7	2.9116	3.4326
		244	429.4	493.3	-0.1455	1.8134
		245	550.6	644.1	1.6893	3.9341
		246	131.9	669.4	-3.9455	4.3031
		361	258.2	571.6	-2.7458	2.9190
13302	06531808	242	492.2	179.2	0.7859	-2.5777
		245	409.2	212.7	-0.4703	-2.1056

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
13802	06531808	361	106.0	134.9	-5.0726	-3.2554
		375	579.7	433.6	2.1124	0.9755
		386	371.0	393.4	-1.0374	0.4237
		387	143.5	526.3	-4.4953	2.2918
		388	532.5	537.9	2.1641	3.1483
		1805	207.3	627.0	-3.5375	3.7006
		1806	285.2	356.4	-2.3345	-0.0884
		1807	399.8	651.4	-0.5984	4.0314
13803	06531878	1810	534.5	640.5	2.1977	3.8903
		381	514.0	497.7	1.1345	1.8767
		388	421.0	128.2	-0.2917	-3.2871
		1805	35.3	166.0	-6.1765	-2.8463
		1807	231.5	189.3	-3.1596	-2.4372
		1809	551.7	300.1	1.6938	-0.8892
		1810	422.2	130.8	-0.2728	-2.5500
13907	06570728	800	553.2	436.0	1.7267	1.7224
		801	736.6	469.6	4.4935	1.5165
		802	768.9	101.5	5.0583	-3.6580
		805	393.5	116.4	-0.6302	-3.4415
		808	576.8	143.2	2.0737	-3.0677
		809	555.3	24.5	1.7693	-4.7288
		847	206.1	116.3	-3.5490	-3.4698
		856	195.3	26.1	-3.7247	-4.7739
13909	06570798	911	153.1	350.6	-4.3372	-0.1666
		28	783.9	227.5	5.2336	-1.8832
		806	564.1	21.9	3.4537	-4.7725
		807	191.6	48.9	-3.7824	-4.4456
		809	594.0	693.9	2.3531	4.6726
		811	701.2	395.5	3.9568	0.4640
		812	704.4	585.0	4.0115	3.1482
		844	194.7	313.4	-3.7049	-0.6864
13911	06570863	856	246.2	690.6	-2.9492	4.5989
		26	650.1	283.9	3.1862	-1.1034
		27	721.9	60.7	4.3364	-4.2291
		806	694.7	660.1	3.8722	4.2220
		814	765.7	505.8	4.9335	2.0382
		815	618.3	38.9	2.7364	-4.5276
13913	06570938	824	233.2	273.7	-3.0480	-1.2413
		815	632.6	678.6	2.9311	4.4602

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
13913	06570938	817	772.9	402.8	5.0510	0.5773
		819	436.4	32.8	-0.0537	-4.6161
		820	633.6	47.1	3.7447	-4.4198
		829	162.5	163.4	-4.2049	-2.8123
13915	06571008	31	693.9	177.0	3.9371	-2.5972
		34	675.8	564.9	3.5734	2.8484
		35	265.4	226.7	-2.6415	-1.9017
		38	399.0	42.4	-0.6228	-4.4856
		819	453.0	674.2	0.2156	4.3617
		820	699.0	683.8	3.9457	4.5771
		825	485.0	105.9	0.6848	-3.5900
		826	266.0	157.9	-2.6367	-2.8694
13918	06571358	827	707.5	99.0	4.0996	-3.6914
		37	653.6	151.1	3.2492	-2.9588
		38	484.5	617.4	0.6933	3.5640
		523	249.7	243.5	-2.8768	-1.6664
		524	234.2	53.7	-3.1233	-4.3551
		825	540.4	630.6	1.5437	4.4655
		826	361.0	665.2	-1.1832	4.2319
		828	720.8	576.5	4.2595	3.0326
13920	06571428	37	541.4	617.0	1.5539	3.5618
		513	515.7	185.2	1.1437	-2.4824
		523	167.0	692.3	-4.1881	4.7346
		524	147.0	519.2	-4.4392	2.1960
		525	472.6	14.4	0.5037	-4.8760
13922	06571498	511	64.9	359.6	-5.6935	-0.0560
		512	269.0	58.4	-2.6012	-4.2814
		513	426.3	636.1	-0.1899	3.3217
		517	644.8	221.3	3.1056	-1.9831
		518	753.6	505.1	4.7507	2.0185
		525	386.2	478.5	-0.7974	1.6170
13924	06571568	512	197.0	500.9	-3.6704	1.9367
		514	217.7	63.3	-3.3791	-4.1542
		516	470.6	225.4	0.4646	-1.9219
		517	555.5	656.9	1.7674	4.1257
		519	553.2	405.7	1.7191	0.5937
		521	463.2	67.6	0.3536	-4.1294
13926	06571638	514	143.4	487.7	-4.4934	1.7505

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
13926	06571638	515	68.5	191.1	-5.6469	-2.4582
		516	333.6	640.6	-0.8397	3.8820
		520	432.2	146.8	0.6395	-3.0229
		521	376.7	490.6	-0.9417	1.7844
		522	730.1	379.7	4.3961	0.2389
		632	678.1	107.6	3.6354	-3.5729
13927	06571848	517	131.0	281.8	-4.6749	-1.1432
		518	208.3	458.4	-3.4967	1.3440
		519	132.4	111.0	-4.6761	-3.5818
		535	745.2	152.9	4.6598	-2.9391
		536	793.7	169.0	5.4153	-2.7139
		540	614.5	122.7	2.6564	-3.3610
		880	624.0	553.5	2.7943	2.6747
		881	207.0	559.5	-3.5272	2.7579
13928	06571918	519	215.5	683.8	-3.4247	4.5047
		521	145.1	454.3	-4.4614	1.2824
		520	237.0	201.6	-3.0745	-2.2621
		522	435.7	391.6	-0.0544	0.3988
		539	772.1	395.6	5.0376	0.4689
		540	668.0	688.2	3.4662	4.4372
		542	666.7	111.8	3.4560	-3.5155
		632	404.3	179.1	-0.5432	-2.5705
13930	06571988	633	445.8	102.5	0.0865	-3.6440
		542	719.7	577.0	4.2603	4.4855
		543	797.2	513.4	5.4231	2.1486
		633	505.6	677.5	1.0130	4.4115
		1296	76.1	158.3	-5.5377	-2.9326
		1297	435.9	129.4	-0.0638	-3.2702
13931	06572128	1285	150.1	614.3	-4.4237	3.5327
		1286	307.2	548.4	-1.9969	2.5963
		1287	383.7	531.9	-0.8378	3.7593
		1294	614.4	594.4	2.6491	3.2482
14007	06606708	954	139.8	27.2	-4.5835	-4.7971
		955	459.3	31.0	0.2970	-4.6396
		957	383.2	140.0	-0.3623	-3.1117
		958	247.8	334.9	-2.3935	-0.3825
		959	53.2	356.4	-5.8741	-0.1016
		960	185.3	549.2	-3.8493	2.6150
		961	74.1	602.8	-5.6226	3.3798

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
14009	06606778	946	169.6	55.5	-4.1173	-4.3617
		947	511.8	14.7	1.1056	-4.8678
		948	764.8	11.2	5.0623	-4.9547
		949	67.3	190.4	-5.6646	-2.4639
		950	45.2	356.6	-6.0023	-0.0990
		951	270.0	426.5	-2.5593	0.8992
		952	82.8	579.7	-5.4714	3.0531
		954	192.3	677.8	-3.7824	4.4252
		955	499.9	689.1	0.9295	4.5813
		963	648.5	131.7	3.1764	-3.2288
		964	701.8	351.1	3.9696	-0.1596
		965	556.2	376.5	1.7654	0.1985
		966	788.3	499.5	5.2856	1.9560
14011	06606848	938	359.6	36.4	-1.2242	-4.5731
		939	602.7	33.4	2.4973	-4.6049
		940	757.1	121.3	4.8631	-3.3781
		941	710.0	228.8	4.1014	-1.8713
		942	731.6	363.2	4.4218	0.0142
		947	527.3	656.9	1.3490	4.1267
		948	780.2	644.1	5.1944	4.0475
14013	06606918	929	431.9	323.2	-0.1146	-0.5507
		930	465.2	409.3	0.3948	0.6504
		931	715.8	366.7	4.1806	0.0616
		932	682.2	189.4	3.6799	-2.4234
		938	358.8	680.1	-1.2190	4.4433
		939	593.0	677.2	2.4106	4.4327
14015	06606988	924	74.9	196.9	-5.5444	-2.3648
		925	151.0	111.3	-4.3881	-3.5607
		926	478.3	141.1	0.5383	-3.0977
		927	666.6	520.4	3.4345	2.2173
		928	528.3	336.3	1.3435	-0.3677
		1003	89.7	545.4	-5.3427	2.5662
14018	06607338	753	190.3	73.0	-3.7938	-4.0945
		754	234.7	206.8	-3.1064	-2.1838
		755	774.6	48.0	5.1959	-4.4242
		924	243.0	636.1	-2.9878	3.3307
		925	312.6	593.0	-1.9149	3.2935
		926	563.2	696.1	1.8871	4.6967
14020	06607408	753	107.0	526.6	-5.0560	2.2984

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
14020	06607408	754	151.6	650.3	-4.4130	4.0414
		755	659.9	514.1	3.3335	2.1267
		785	353.1	69.8	-1.3207	-4.1032
		786	527.7	162.1	1.3319	-2.8053
		787	165.1	214.6	-4.1596	-2.0855
		792	643.3	25.5	3.1306	-4.7225
14022	06607478	785	267.5	521.1	-2.5994	2.2190
		786	432.5	610.0	-0.0943	3.4568
		787	97.1	549.7	-5.2880	4.0498
		788	174.2	200.4	-4.0227	-2.2850
		789	458.8	270.0	0.2889	-1.2978
		791	743.6	260.0	4.6132	-1.4369
		792	545.4	435.0	1.6092	1.7048
		798	617.2	35.4	2.7210	-4.5819
14024	06607548	757	29.6	410.3	-6.2542	0.6562
		768	513.5	269.9	1.1169	-1.3024
		769	583.9	365.7	2.1828	0.0343
		770	674.4	350.0	3.5518	-0.1820
		788	107.6	616.6	-5.0967	3.5698
		789	374.2	684.3	-0.9837	4.4999
		790	209.6	101.7	-3.4983	-3.6803
		791	645.3	673.4	3.1240	4.3879
		793	437.3	75.8	-0.0404	-4.0145
		794	668.0	75.5	3.4918	-4.0230
		798	524.2	467.3	1.2884	1.4551
14027	06607828	768	103.9	42.0	-5.1442	-4.6138
		770	228.2	103.0	-3.2170	-3.6582
		771	630.7	509.2	2.8933	2.0488
		772	648.6	438.3	3.1595	1.0539
		791	198.0	326.8	-3.6537	-0.4998
		792	52.2	451.6	-5.9028	1.2389
		795	488.4	203.6	0.7335	-2.2278
		796	281.9	475.7	-2.3791	1.5835
		798	106.2	179.3	-5.0621	-2.6046
14028	06607898	768	172.4	603.7	-4.0687	3.3781
		769	227.0	670.3	-3.2441	4.3118
		770	294.8	664.5	-2.1978	4.2222
		793	115.2	467.3	-4.9271	1.4624
		794	295.1	479.2	-2.1794	1.6302

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
14104	06640938	177	119.2	175.2	-4.8643	-2.6614
		306	443.3	534.4	0.0667	3.0933
		368	576.4	399.0	2.0665	0.4958
		382	240.2	515.7	-3.0169	2.1405
14109	06642638	862	201.4	661.9	-3.6395	4.1994
		863	326.4	309.0	-1.7118	-0.7447
		864	748.0	17.7	4.7838	-4.8554
		865	273.4	88.6	-2.5307	-3.8468
		882	737.1	631.3	4.5160	3.8275
		883	563.9	470.0	1.8854	1.4985
		884	767.6	246.6	4.9839	-1.6173
		885	692.0	519.7	3.8142	2.2141
14111	06642758	813	93.1	677.0	-5.3773	4.4521
		818	124.6	82.2	-4.8019	-4.0003
		864	754.4	675.6	4.7941	4.4989
		866	244.9	392.2	-2.9402	0.4213
		867	201.7	33.0	-3.6271	-4.6690
		868	730.4	26.5	4.4996	-4.7238
		890	671.0	319.3	3.5009	-0.6083
14113	06642828	822	217.7	98.0	-3.3750	-3.7273
		867	229.5	693.2	-3.2096	4.6385
		868	745.5	633.6	4.6601	4.6130
		869	316.4	324.2	-1.8613	-0.5315
		870	744.1	24.6	4.7202	-4.7552
		871	486.1	36.6	0.7071	-4.5591
		872	139.5	11.1	-4.6006	-5.0420
		893	739.5	318.7	4.5423	-0.6103
14115	06642898	870	754.4	657.8	4.7923	4.2324
		871	496.8	679.7	0.8815	4.4466
		872	157.1	641.4	-4.3250	3.9141
		874	306.7	473.0	-2.0033	1.5462
		375	327.9	29.0	-1.7093	-4.6903
		876	454.4	43.6	0.2213	-4.4642
		896	692.6	257.1	3.8313	-1.4791
		897	576.1	483.7	2.0703	1.6898
14117	06642968	873	77.5	677.4	-5.6323	4.4624
		875	338.4	652.7	-1.5279	4.0540
		876	463.5	668.7	0.3742	4.2836
		877	497.8	69.8	0.8813	-4.0956

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
14117	06642968	878	296.3	297.3	-2.1767	-2.1727
		879	31.0	83.1	-5.4744	-4.0225
		900	676.9	500.3	3.5872	1.9340
		912	712.5	252.1	4.1368	-1.5482
14120	06643318	877	574.5	622.5	2.0529	3.6467
		878	392.4	674.1	-0.7057	4.3585
		879	242.8	527.7	-2.9761	2.3134
		880	649.4	95.3	3.1970	-3.7373
		891	59.3	106.9	-5.8062	-3.6916
14129	06643808	535	62.3	380.1	-5.7366	0.2334
		536	112.7	400.2	-4.9524	0.5223
		537	109.3	75.5	-5.0397	-4.1119
		538	546.7	122.1	1.6209	-3.3688
		545	699.3	204.7	3.9396	-2.2158
		546	600.2	573.3	2.4365	2.9508
		917	342.7	554.1	-1.4563	2.6754
		918	529.3	590.0	1.3704	3.1781
		919	677.4	567.2	2.5961	2.8779
14130	06643878	537	192.4	647.9	-3.7788	3.9993
		538	608.2	693.5	2.5637	4.6659
		539	117.0	636.5	-4.9527	3.8492
		543	86.8	211.7	-5.3615	-2.1529
		544	568.4	34.0	1.9655	-4.6049
		549	692.1	470.5	3.8171	1.5111
		550	708.6	204.4	4.0816	-2.2216
14132	06643948	553	682.9	414.4	3.6768	0.7166
		554	607.1	208.3	2.5333	-2.1713
		799	85.0	349.3	-5.3855	-0.2023
14222	06679368	771	517.1	573.8	1.1865	2.9517
		772	528.3	453.4	1.3488	1.2628
		795	286.1	69.0	-2.3393	-4.1255
		796	47.0	507.9	-6.0085	2.0371
14227	06679718	772	83.5	352.0	-5.4057	-0.1587
		773	788.2	54.1	5.4079	-4.3450
		774	799.6	372.7	5.4602	0.1540
		797	445.4	183.1	0.0820	-2.5116
14309	06714648	887	54.0	589.3	-5.9375	3.1913

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
14309	06714648	892	136.7	411.8	-5.0461	0.6869
		908	57.3	147.0	-5.8319	-3.1035
		909	373.4	44.7	-1.0134	-4.4535
		910	337.9	669.2	-1.5366	4.2885
14313	06714788	898	200.9	450.8	-3.6038	1.2394
		901	50.7	264.9	-5.9158	-1.4037
		902	353.8	200.4	-1.3061	-2.2669
		903	428.7	42.7	-0.1706	-4.4791
		904	215.3	43.9	-3.4191	-4.5073
14315	06714858	903	459.6	684.4	0.3150	4.5067
		904	251.1	681.7	-2.8730	4.4703
		905	582.8	94.8	2.1772	-3.7447
		906	383.7	94.3	-0.7797	-3.7536
		907	200.1	41.8	-3.6518	-4.5439
14318	06715208	905	634.5	676.4	2.9598	4.4312
		906	482.7	631.9	0.6653	3.7680
		907	344.3	544.0	-1.4307	2.5372
		913	121.4	52.8	-4.8571	-4.4266
		914	213.6	146.4	-3.4315	-3.0395
		915	574.3	28.8	2.0596	-4.6691
		916	638.3	164.2	3.0130	-2.7753
14320	06715278	913	46.2	513.2	-6.0246	2.1131
		914	135.4	603.3	-4.6539	3.3798
		915	470.4	506.1	0.4775	2.0019
		916	530.6	628.1	1.3892	3.7176
		917	216.6	124.4	-3.3890	-3.3525
		918	491.4	198.2	0.7803	-2.2991
		919	707.9	166.0	4.0754	-2.7508
14327	06715698	546	64.3	469.0	-5.7153	1.4851
		547	496.0	95.0	0.8512	-3.7454
		548	648.3	53.4	3.1936	-4.3334
		555	787.7	314.4	5.2840	-0.6702
		556	725.5	167.7	4.3440	-2.7298
		1589	619.2	625.0	2.7249	3.6853
14328	06715768	538	67.9	570.2	-5.7052	2.9187
		545	217.6	657.9	-3.3365	4.1386
		547	556.2	653.2	1.7758	4.0730
		548	703.4	611.4	3.9973	3.5209

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
14328	06715768	549	138.0	352.3	-4.5691	-0.1479
		550	156.5	83.6	-4.3116	-3.8910
		551	407.4	102.2	-0.4977	-3.6460
		560	670.5	285.7	3.4926	-1.0849
14330	06715838	544	106.8	485.3	-5.0594	1.7145
		550	239.2	658.8	-3.0517	4.1469
		551	475.6	675.5	0.5578	4.3804
		552	730.2	603.2	4.4065	3.4137
		553	170.4	299.7	-4.0755	-0.8882
		554	107.7	90.7	-5.0631	-3.8974
		563	729.3	288.1	4.3960	-1.0505
		564	747.2	63.0	4.7376	-4.2137
14422	06751328	1313	470.0	195.5	0.4538	-2.3433
		773	564.2	143.3	1.8369	-3.0689
		774	618.3	638.8	2.7145	3.8837
		797	131.0	331.3	-4.6753	-0.4434
14427	06751678	773	135.4	181.0	-4.6144	-2.5701
		774	171.4	431.4	-4.0596	1.6686
		775	653.0	283.8	3.2297	-1.1101
14428	06751748	1683	99.7	66.7	-5.1930	-4.2477
		1685	791.8	285.8	5.3525	-1.0716
		1688	556.3	442.6	1.7683	1.1090
14430	06751818	1679	610.5	72.7	2.6031	-4.0631
		1681	717.8	252.5	4.2160	-1.5499
		1682	683.2	561.7	3.6832	2.7990
		1683	183.2	628.4	-3.9114	3.7254
14528	06787658	555	181.9	378.2	-3.8976	0.2220
		556	108.8	231.4	-5.0216	-1.8622
		557	610.3	125.4	2.5997	-3.3208
		558	459.6	23.2	0.3008	-4.7531
		567	755.7	273.6	4.7971	-1.2453
		1589	64.4	649.5	-5.8301	4.0643
14529	06787728	548	120.0	672.8	-4.9355	4.3773
		552	72.0	120.2	-5.6057	-3.4885
		557	666.6	682.7	3.4466	4.5333
		558	520.9	595.0	1.2435	3.2488
		560	70.6	361.4	-5.6040	-0.0297

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
14529	06737728	561	379.4	108.2	-0.9225	-3.5621
		562	662.7	27.9	3.4272	-4.6944
		570	681.0	453.8	3.6494	1.2758
		571	749.6	322.3	4.6948	-0.5648
14531	06787798	561	442.5	685.4	0.0544	4.5180
		562	716.1	605.4	4.1913	3.4396
		563	153.8	388.3	-4.3259	0.3581
		564	182.2	172.6	-3.9074	-2.6812
		574	654.3	430.3	3.2438	0.9404
		575	794.7	293.3	5.3962	-1.1083
		1324	410.5	124.7	-0.4514	-3.3327
14624	06823353	1685	390.8	20.7	-0.7487	-4.7938
		1686	695.5	394.2	3.8695	0.4407
		1687	713.5	139.0	4.1710	-3.1316
		1688	101.8	232.1	-5.1287	-1.8554
14626	06823428	1682	107.5	74.7	-5.0683	-4.1253
		1684	787.5	394.9	5.2744	0.4646
		1685	307.2	446.7	-1.9970	1.1767
		1687	620.4	561.7	2.7404	2.7897
		1688	46.1	642.0	-6.1272	3.9597
14627	06823638	400	645.1	146.6	3.1197	-3.0251
		401	749.3	75.1	4.7613	-4.0359
		775	67.9	325.5	-5.6464	-0.5359
14628	06823708	400	686.4	680.3	3.7539	4.5127
		401	737.6	611.8	5.2944	3.5731
		403	333.8	84.0	-1.6151	-3.9076
		1684	578.2	329.2	2.0966	-0.4774
		1685	184.5	335.9	-3.8576	-0.3722
		1686	413.2	607.2	-0.3874	3.4160
		1687	434.0	439.9	-0.0760	1.0752
14630	06823778	403	404.2	664.1	-0.5270	4.2135
		404	630.4	531.8	2.8892	2.3662
		407	641.3	342.7	3.0486	-0.2897
		1608	751.5	512.8	4.7189	2.1237
		1609	745.5	650.3	4.6528	4.1070
		1679	50.0	139.0	-5.9483	-3.2312
		1680	256.5	277.4	-2.7717	-1.1948
		1681	143.5	317.9	-4.4828	-0.6336

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
14630	06823778	1682	111.5	611.3	-5.0349	3.4935
14631	06823918	404	182.1	457.6	-3.8937	1.3356
		405	529.0	538.9	1.3638	2.4600
		406	512.0	308.7	1.0952	-0.7615
		407	191.0	294.6	-3.7619	-0.9527
		1603	438.7	627.1	-0.0007	3.6963
		1604	687.0	566.6	3.7413	2.8706
		1606	448.7	527.8	0.1512	2.3041
		1607	384.3	260.2	-0.8395	-1.4323
		1608	291.6	445.7	-2.2319	1.1658
		1609	288.9	568.0	-2.2741	2.8740
14727	06859618	567	173.3	288.8	-4.0245	-1.0365
		568	312.3	128.5	-1.9402	-3.2792
		569	724.1	82.0	4.3643	-3.9349
		577	694.9	253.9	3.8658	-1.5260
		578	771.0	398.8	5.0214	0.5176
14728	06859688	557	108.5	662.3	-5.1110	4.2291
		562	81.6	34.2	-5.5036	-4.7563
		568	277.6	667.4	-0.9303	4.2618
		569	768.7	617.5	5.0025	3.6435
		570	102.6	440.1	-5.1148	1.0827
		571	163.7	319.8	-4.1748	-0.6014
		572	245.5	93.2	-2.9547	-3.7916
		573	681.7	129.4	3.6817	-3.2656
		582	734.4	497.3	4.4575	1.9013
		583	688.2	314.7	3.7617	-0.6766
14730	06859758	562	166.6	605.9	-4.1610	3.4092
		572	323.8	670.3	-1.7524	4.3016
		573	739.3	694.9	4.5677	4.7706
		574	108.5	426.2	-5.0203	0.8859
		575	244.1	297.9	-2.9577	-0.9063
		584	680.2	399.4	3.6367	0.5099
		585	734.3	48.2	4.5435	-4.4197
		1335	454.2	63.4	0.2164	-4.1901
14802	06892728	237	682.0	85.7	3.7060	-3.8347
		363	320.7	424.3	-1.7942	0.8609
14828	06895668	400	145.5	640.2	-4.5063	3.8989
		401	235.6	590.0	-3.0939	3.1836

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
14323	06895668	405	399.8	42.1	-0.6121	-4.4934
		411	732.3	176.2	4.4432	-2.6106
		1600	334.1	539.8	-1.5366	2.4763
		1601	607.2	335.7	2.5345	-0.3852
		1602	501.2	282.5	0.9306	-1.1265
		1603	290.1	139.2	-2.2751	-3.1336
		1604	589.5	111.4	2.2765	-3.5179
		1605	464.8	346.8	0.3833	-0.2268
		1606	307.6	13.7	-2.0223	-4.9173
		1609	120.9	52.8	-4.7751	-4.4233
14830	06895738	404	87.4	480.1	-5.3599	1.6387
		405	455.3	615.5	0.2493	3.5311
		406	442.3	347.6	0.0427	-0.2174
		407	98.0	296.0	-5.1802	-0.9518
		414	648.1	122.8	3.1711	-3.3613
		1604	639.2	670.2	3.0297	4.3370
		1606	363.7	588.7	-1.0639	2.1556
		1607	303.1	278.1	-2.0670	-1.1856
		1608	201.6	478.6	-3.6001	1.6231
		1609	197.5	617.3	-3.6847	3.5645
14908	06930528	2208	764.2	105.3	4.9801	-3.6051
		2209	575.3	476.4	2.0563	1.5895
		2210	583.1	390.6	2.1692	0.3867
		2211	766.7	340.9	4.9553	-0.2961
		2212	224.0	11.5	-3.2919	-4.9760
		2213	470.9	20.4	0.4747	-4.7891
		2214	586.6	42.5	2.2421	-4.4758
14910	06930598	2212	264.0	667.5	-2.6574	4.2679
		2213	503.0	679.0	0.9916	4.4344
		2214	611.6	696.4	2.6167	4.7097
		2219	637.6	419.2	3.0049	0.7869
		2220	532.4	381.6	1.4145	0.2580
		2221	665.9	224.7	3.4324	-1.3341
		2222	706.6	158.6	4.0612	-2.8546
		2235	143.1	37.2	-4.5393	-4.6386
		2236	263.7	25.3	-2.6962	-4.7543
		2237	116.6	6.1	-4.9842	-5.1397
14912	06930668	2238	233.9	18.0	-3.0757	-4.8718
14912	06930668	2235	173.5	690.7	-4.0779	4.6099
		2236	286.2	686.6	-2.3002	4.5353

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
14912	06930668	2237	148.0	656.6	-4.4717	4.1303
		2238	265.0	678.8	-2.6575	4.4282
		2239	772.3	30.6	5.1707	-4.6755
		2241	711.7	518.9	4.1126	2.2058
		2242	805.5	533.7	5.5555	2.4515
		2254	291.8	43.9	-2.2550	-4.4828
		2256	540.2	28.2	1.5368	-4.6782
14914	06930738	2239	786.5	674.4	5.2966	4.5059
		2253	788.3	614.5	5.3061	3.6165
		2254	313.6	696.9	-1.9120	4.6799
		2256	555.3	633.2	1.7659	4.5051
		2259	697.7	189.5	3.9172	-2.4211
		2260	752.3	338.4	4.7448	-0.3333
		2273	203.6	26.8	-3.5933	-4.7579
		2279	356.7	49.1	-1.1155	-4.3916
		2280	726.8	12.8	4.4567	-4.9200
		2281	327.5	22.3	-1.7163	-4.7831
14916	06930808	2278	220.9	657.6	-3.3348	4.1351
		2279	381.2	685.2	-0.8780	4.5149
		2280	742.1	642.2	4.6005	3.9899
		2281	343.3	658.2	-1.4535	4.1326
		2282	671.2	221.5	3.5080	-1.9762
		2283	707.2	114.2	4.0859	-3.4760
		2284	807.0	366.2	5.5749	0.0687
		2285	719.7	507.8	4.2348	2.0509
		2290	524.6	138.9	1.2848	-3.1278
		2291	63.9	290.4	-5.7112	-1.0358
		2292	221.6	65.4	-3.3194	-4.1904
14919	06931158	2283	725.2	695.5	4.3521	4.7749
		2290	577.3	675.8	2.0982	4.4070
		2291	201.0	658.4	-3.6451	4.1502
		2292	357.3	547.6	-1.2335	2.5872
		2294	793.0	214.6	5.3348	-2.0642
		2295	637.6	36.6	3.0177	-3.8588
		2296	348.8	170.1	-1.3842	-2.6892
		2297	201.7	136.0	-3.6138	-3.1907
14921	06931228	577	460.1	95.6	0.3058	-3.7334
		2294	669.2	654.8	3.4841	4.1325
		2295	520.6	541.5	1.2363	2.4991
		2296	249.8	613.7	-2.8795	3.5156

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
14921	06931228	2297	114.3	577.2	-4.9705	3.0138
		2311	627.7	263.1	2.8460	-1.3968
		2313	648.9	11.7	3.2219	-4.9169
		2314	805.0	415.2	5.5407	0.7594
14928	06931648	578	145.0	558.9	-4.4773	2.7526
		579	183.8	132.5	-3.3871	-3.2468
		580	461.4	112.7	0.3231	-3.4971
		581	637.3	144.7	3.7626	-3.0511
		589	627.1	461.8	2.8347	1.3835
		590	656.1	295.6	3.2750	-0.9446
		591	777.2	225.9	5.1313	-1.9121
		577	56.4	418.6	-5.8357	0.7778
		2307	798.5	166.7	5.4915	-2.7447
		2310	575.1	227.2	2.0472	-1.8989
		2311	171.1	520.1	-4.0710	2.2090
		2313	136.5	337.7	-3.8278	0.3549
		2314	292.4	610.7	-2.2251	3.4708
14929	06931718	573	39.8	335.7	-6.0852	-0.3992
		579	249.9	668.9	-2.8386	4.2900
		580	510.1	651.4	1.0790	4.0425
		581	725.7	671.3	4.3508	4.4084
		582	103.4	672.7	-5.1246	4.3811
		583	54.3	502.7	-5.8898	1.9623
		586	428.8	121.5	-0.1727	-3.3752
		587	342.5	39.8	-1.4871	-4.5340
		588	747.5	113.6	4.7142	-3.4940
		594	641.4	458.4	3.0494	1.3356
		595	633.6	203.3	2.9349	-2.2360
14931	06931788	584	73.3	601.5	-5.6376	3.3614
		585	125.3	283.2	-4.7557	-1.1258
		586	491.1	690.9	0.7932	4.6021
		587	407.5	614.7	-0.4755	3.5192
		588	796.6	670.1	5.4561	4.4445
		598	579.4	430.9	2.1134	0.9432
		599	761.4	144.2	4.9177	-3.0654
		1344	424.0	104.4	-0.2454	-3.6179
15002	06964758	1345	185.0	168.8	-3.8655	-2.7349
		166	499.8	652.1	0.9207	4.0428
		167	371.9	533.1	-1.0156	2.3716
		199	161.1	414.3	-4.2168	0.7142

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
15002	06964758	258	249.9	168.1	-2.8845	-2.7400
15007	06966508	1004	432.4	355.1	-0.1050	-0.1048
		1006	136.1	663.6	-4.6628	4.2356
		1007	56.6	495.9	-5.8482	1.8674
		1008	177.6	71.4	-3.9904	-4.1233
		1010	248.2	333.6	-2.8928	-0.3997
		1011	420.0	595.7	-0.2834	3.2579
15009	06966573	1009	357.9	591.3	-1.2264	3.1983
		1012	215.8	351.9	-3.3829	-0.1430
		1013	109.9	572.4	-5.0371	2.9470
		1015	198.2	91.4	-3.6713	-3.8248
15011	06966648	1016	279.0	575.0	-2.4255	2.9731
		1017	208.4	317.5	-3.4958	-0.6269
		1018	54.9	340.7	-5.8481	-0.3233
		1019	634.4	263.1	2.9482	-1.3953
		1020	739.5	150.2	4.5736	-2.9692
		1054	675.5	356.4	3.5682	-0.0863
		1056	761.8	209.8	4.8934	-2.1331
15013	06966718	1022	631.6	415.6	2.9031	0.7399
		1023	551.3	374.4	1.6908	0.1595
15027	06967628	403	250.7	71.5	-2.8772	-4.0982
		409	474.3	91.9	0.5218	-3.7878
		410	649.9	110.9	3.2011	-3.5237
		415	646.9	269.8	3.1375	-1.3058
		416	572.5	358.9	2.0106	-0.0605
		417	539.9	544.3	1.5284	2.5374
		1049	471.0	630.2	0.4334	3.7411
		1050	397.9	453.6	-0.6210	1.2696
		1051	695.6	526.4	3.8694	2.3049
		1053	348.3	668.4	-1.3778	4.2761
15028	06967698	408	315.7	628.8	-1.8711	3.7209
		409	527.4	646.9	1.3412	3.9807
		410	694.9	658.5	3.8745	4.1935
		411	103.5	347.9	-5.0995	-0.2148
		413	590.4	61.7	2.2981	-4.2121
		418	659.2	261.1	3.3239	-1.4281
		419	790.9	353.1	5.3279	-0.1246

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
15030	06967768	413	635.8	625.2	2.9759	3.6914
		414	63.5	313.5	-5.7153	-0.7112
		420	623.4	347.2	2.7790	-0.2259
		421	751.3	303.5	4.7333	-0.8301
		1508	165.0	12.2	-4.1914	-4.9992
		1509	372.8	120.6	-1.0217	-3.3906
		1510	152.1	139.6	-4.3654	-3.1578
		1511	273.6	167.9	-2.5226	-2.7327
		1519	623.8	74.2	2.8078	-4.0406
		1520	755.8	155.1	4.8265	-2.9099
15109	07002558	2224	87.7	660.2	-5.4531	4.2075
		2225	380.4	461.8	-0.8872	1.3863
		2226	351.7	619.2	-1.3239	3.5868
		2227	476.2	15.4	0.5581	-4.3597
		2228	276.3	16.1	-2.4960	-4.8873
		2229	164.3	17.2	-4.2032	-4.9234
		2230	358.9	9.8	-1.2371	-4.9556
15111	07002628	2227	509.0	686.1	1.0669	4.5395
		2228	314.5	685.7	-1.8965	4.5216
		2229	205.8	682.5	-3.5748	4.4892
		2230	395.7	680.6	-0.6561	4.4496
		2243	124.6	589.0	-4.8158	3.1784
		2245	332.7	500.1	-1.6080	1.9235
		2246	141.3	343.7	-4.5188	-0.2669
		2247	614.8	21.8	2.6900	-4.7705
		2248	485.3	15.0	0.6978	-4.8649
15113	07002698	2247	652.3	687.0	3.2239	4.5882
		2248	523.3	695.7	1.2872	4.6760
		2263	160.2	321.4	-4.2283	-0.5777
		2264	177.5	569.5	-2.9808	2.3995
		2265	405.5	585.6	-0.5031	3.1154
		2266	142.0	402.7	-4.5046	0.5617
		2267	410.1	35.2	-0.4550	-4.5844
		2268	107.7	35.4	-5.0879	-4.7062
		2269	594.5	10.5	2.3800	-4.9294
		2270	645.7	44.9	3.1573	-4.4468
15115	07002768	2267	458.0	691.3	0.2887	4.6059
		2268	160.0	679.6	-4.2926	4.4566
		2269	642.4	664.8	3.0731	4.2657
		2270	692.9	695.6	3.8542	4.7489

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
15115	07002768	2272	508.3	582.2	1.0525	3.0697
		2273	413.0	520.2	-0.3911	2.2000
		2274	57.5	281.6	-5.8103	-1.1640
		2286	431.4	72.8	-0.1297	-4.0542
		2287	622.9	21.8	2.8154	-4.7720
		2288	308.3	63.0	-1.9947	-4.2061
		2289	180.6	160.7	-3.9303	-2.8469
15118	07003118	2286	528.3	637.7	1.3547	3.8541
		2287	691.3	648.9	3.8186	4.0568
		2288	435.3	597.8	-0.0518	3.2878
		2289	318.0	627.7	-1.8361	3.7080
		2298	810.8	122.4	5.7139	-3.3671
		2299	686.8	97.3	3.7764	-3.7123
		2300	451.3	146.3	0.1701	-3.0238
		2301	178.8	208.3	-3.9521	-2.1690
15120	07003188	589	453.2	48.3	0.2783	-4.3971
		2298	685.5	584.7	3.7217	3.1348
		2299	564.5	563.2	1.8996	2.8055
		2300	342.1	604.8	-1.4678	3.3867
		2301	94.7	652.2	-5.3301	4.0885
		2302	793.9	17.4	5.5283	-4.8726
		2303	653.4	75.3	3.2643	-4.0206
		2304	505.0	140.5	0.9859	-3.1064
		2305	278.3	142.9	-2.4531	-3.0784
15122	07003258	589	360.3	511.5	-1.1915	2.0802
		590	379.3	230.1	-0.9169	-1.8516
		2302	689.6	431.4	3.7799	1.6697
		2303	547.3	538.2	1.6392	2.4528
		2304	405.6	597.4	-0.5025	3.2801
		2305	192.7	594.9	-3.7523	3.2550
		2307	559.6	22.5	1.8348	-4.7602
		2309	774.4	145.4	5.1236	-3.0416
		2310	265.2	121.1	-2.6523	-3.3887
15127	07003608	589	111.2	313.5	-4.9780	-0.6255
		590	126.2	154.6	-4.7543	-2.9452
		591	245.9	98.3	-2.9475	-3.7166
		592	652.0	78.3	3.2419	-3.9807
		593	757.0	131.6	4.8559	-3.2384
		608	785.6	391.0	5.2448	0.4101
		609	646.4	570.8	3.1312	2.9250

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
15127	07003608	2302	349.6	330.0	-1.3594	-0.4535
		2303	244.8	350.2	-2.9437	-0.1676
		2304	142.7	370.7	-4.4944	0.1147
15128	07003678	581	217.1	558.9	-3.3728	2.7502
		590	200.6	693.2	-3.6577	4.6422
		591	309.2	645.0	-1.9755	3.9486
		592	692.0	623.0	3.8253	3.6826
		593	792.5	662.3	5.3852	4.3249
		594	123.6	326.3	-4.7891	-0.5152
		595	113.9	73.2	-4.9699	-4.1403
		596	465.6	80.7	0.3893	-3.9454
		597	692.2	67.4	3.8697	-4.1396
		605	791.2	360.4	5.3309	-0.0215
		2307	325.7	592.5	-1.7165	3.2144
		2309	477.0	677.7	0.5791	4.4141
		2310	122.1	620.7	-4.8684	3.6274
15130	07003748	588	294.7	572.6	-2.1978	2.9355
		595	189.8	643.1	-3.8169	3.9323
		596	521.2	655.6	1.2473	4.1028
		597	739.4	636.2	4.5540	3.8948
		598	86.7	299.7	-5.3569	-0.9002
		599	276.4	32.0	-2.4928	-4.6614
		600	776.5	197.0	5.1328	-2.3209
		601	680.3	60.5	3.6865	-4.2374
		602	624.0	534.5	2.7940	3.1128
15131	07003888	596	87.1	555.4	-5.3900	2.7126
		597	277.4	546.1	-2.4495	2.5709
		600	310.0	166.5	-1.9729	-2.7429
		601	222.7	47.8	-3.3070	-4.4442
		602	173.2	497.4	-4.0344	1.8951
		603	791.2	378.4	5.3303	0.2350
		604	615.5	463.9	2.6607	1.4143
		619	668.1	128.6	3.4735	-3.2750
15202	07036713	166	545.0	658.8	1.6059	4.1438
		167	391.8	562.6	-0.7138	2.7836
		199	151.0	476.7	-4.3775	1.5891
		258	202.6	224.0	-3.5939	-1.9591
15211	07038608	1028	84.1	272.9	-5.3954	-1.2790
		1029	124.3	378.0	-4.7757	0.2137

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
15211	07038608	1030	210.6	50.2	-3.4900	-4.4166
		1031	477.8	14.9	0.5833	-4.8657
15213	07038678	1031	519.7	674.1	1.2292	4.3703
		1032	333.0	617.8	-1.5301	3.5680
		1033	41.5	443.1	-6.0699	1.1195
		1034	163.8	334.7	-4.1722	-0.3891
		1035	542.3	36.3	1.5672	-4.5630
		1036	143.5	55.1	-4.5185	-4.3816
15215	07038748	1035	582.2	684.1	2.1732	4.5273
		1036	189.8	693.0	-3.8245	4.6407
		1037	347.6	441.8	-1.3843	1.1096
		1038	385.5	516.7	-0.8064	2.1530
		1041	741.4	566.4	4.5714	2.8964
		1042	559.6	228.6	1.8143	-1.8755
		1043	725.2	166.6	4.3418	-2.7394
		1044	437.2	41.0	-0.0402	-4.5005
15218	07039098	1045	222.0	68.8	-3.3118	-4.1419
		1044	536.6	666.8	1.4836	4.2686
		1045	365.0	621.3	-1.1200	3.6166
		1046	85.1	524.2	-5.4068	2.2665
		1047	520.2	67.9	1.2230	-4.1215
		1048	624.8	406.6	2.7997	0.6118
15220	07039168	1053	147.4	92.5	-4.4495	-3.8373
		1047	401.9	539.3	-0.5577	2.4677
		1049	216.7	451.5	-3.3685	1.2493
		1050	88.2	106.8	-5.3566	-3.6714
		1051	528.6	228.8	1.3449	-1.8722
		1052	769.7	134.4	5.0555	-3.1963
15227	07039588	1053	54.0	548.7	-5.9177	2.6154
		415	113.1	108.6	-4.9725	-3.6266
		416	49.0	189.8	-5.9518	-2.4853
		417	39.3	373.8	-6.0964	0.1448
		422	728.3	404.2	4.3763	0.5858
		423	592.9	121.7	2.3274	-3.3724
		430	635.3	76.6	2.9847	-4.0030
		1048	176.7	663.6	-4.0234	4.2274
		1051	188.0	377.5	-3.8031	0.2131
		1052	353.6	359.6	-1.2968	-0.0396

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
15228	07039658	415	192.0	547.1	-3.7843	3.9906
		418	131.7	92.1	-4.6912	-3.8549
		419	263.2	198.1	-2.6770	-2.3040
		423	641.7	661.7	3.0690	4.2201
		426	471.6	16.9	0.4891	-4.8409
		430	683.5	619.5	3.6958	3.6303
15230	07039728	413	140.5	464.8	-4.5345	1.4312
		418	208.4	656.4	-3.5294	4.1188
		420	133.1	185.4	-4.6495	-2.5097
		421	256.3	153.7	-2.7777	-2.9316
		424	744.2	17.5	4.7283	-4.8643
		425	723.8	472.7	4.2937	1.5519
		426	527.1	591.2	1.3382	3.1954
15231	07039868	1513	265.5	646.3	-2.6443	3.9727
		1514	323.3	424.3	-1.7534	0.8668
		1515	176.6	275.8	-3.9832	-1.2177
		1516	286.7	158.5	-2.3259	-2.8583
		1517	526.2	157.0	1.3069	-2.8782
		1521	789.1	430.9	5.2959	0.9717
		1522	618.2	546.9	2.7078	2.5799
		1523	770.4	208.2	5.0313	-2.1673
		1524	426.4	490.8	-0.1873	1.7884
		1530	640.5	10.7	3.0909	-4.9356
15327	07075638	592	34.1	164.9	-6.1940	-2.8595
		593	136.8	222.0	-4.5947	-1.9891
		606	596.9	146.6	2.3832	-3.0244
		607	373.3	112.5	-1.0073	-3.5011
		608	190.0	467.2	-3.7754	1.4690
		609	88.5	613.6	-5.3930	3.5314
		610	758.3	321.3	4.8298	-0.5763
		611	753.7	529.4	4.8334	2.3680
15328	07075708	592	125.3	691.2	-4.8693	4.6432
		597	95.3	178.1	-5.2311	-2.6262
		603	674.2	46.7	3.5976	-4.4297
		604	470.1	122.6	0.4556	-3.3597
		605	192.9	459.9	-3.7311	1.3654
		606	646.6	681.7	3.1423	4.5081
		607	436.1	653.6	-0.0428	4.0679
		612	789.0	532.7	5.3060	3.1479
		615	673.3	198.7	3.5489	-2.2992

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
15228	07039658	415	192.0	547.1	-3.7843	3.9906
		418	131.7	92.1	-4.6912	-3.8549
		419	263.2	198.1	-2.6770	-2.3040
		423	641.7	661.7	3.0690	4.2201
		426	471.6	16.9	0.4891	-4.8409
		430	683.5	619.5	3.6953	3.6303
15230	07039728	413	140.5	464.8	-4.5345	1.4312
		418	208.4	656.4	-3.5294	4.1188
		420	133.1	185.4	-4.6495	-2.5097
		421	256.3	153.7	-2.7777	-2.9316
		424	744.2	17.5	4.7283	-4.8643
		425	723.8	472.7	4.2937	1.5519
		426	527.1	591.2	1.3382	3.1954
15231	07039868	1513	265.5	646.3	-2.6443	3.9727
		1514	323.3	424.3	-1.7534	0.8668
		1515	176.6	275.8	-3.9832	-1.2177
		1516	286.7	158.5	-2.3259	-2.8583
		1517	526.2	157.0	1.3069	-2.8782
		1521	789.1	430.9	5.2959	0.9717
		1522	618.2	546.9	2.7078	2.5799
		1523	770.4	208.2	5.0313	-2.1673
		1524	426.4	490.8	-0.1873	1.7884
		1530	640.5	10.7	3.0909	-4.9356
15327	07075638	592	34.1	164.9	-6.1940	-2.8595
		593	136.8	222.0	-4.5947	-1.9891
		606	596.9	146.6	2.3832	-3.0244
		607	373.3	112.5	-1.0073	-3.5011
		608	190.0	467.2	-3.7754	1.4690
		609	88.5	613.6	-5.3930	3.5314
		610	758.3	321.3	4.8298	-0.5763
		611	758.7	529.4	4.8334	2.3680
15328	07075708	592	125.3	691.2	-4.8693	4.6432
		597	95.3	178.1	-5.2311	-2.6262
		603	574.2	46.7	3.5976	-4.4297
		604	470.1	122.6	0.4556	-3.3597
		605	192.9	459.9	-3.7311	1.3654
		606	646.6	681.7	3.1423	4.5081
		607	436.1	653.6	-0.0428	4.0679
		612	789.0	532.7	5.3060	3.1473
		615	673.3	198.7	3.5489	-2.2992

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
15328	07075708	616	753.3	433.0	4.7471	0.9971
15330	07075778	600	212.2	319.0	-3.4402	-0.6098
		601	130.2	182.8	-4.6951	-2.5487
		602	79.0	659.8	-5.5961	4.2050
		603	723.1	609.7	4.2931	3.5044
		604	528.6	680.5	1.3620	4.4584
		619	591.4	318.1	2.2945	-0.6333
		620	740.2	124.3	4.5949	-3.3439
15427	07111618	422	131.1	460.8	-4.6788	1.3767
		427	586.8	67.9	3.7866	-4.1300
		428	308.0	149.7	-2.0032	-2.9812
15428	07111688	427	736.5	612.1	4.5047	3.5455
		428	379.2	691.5	-0.9035	4.6033
		429	617.0	135.7	2.6937	-3.1778
		434	778.1	105.1	5.2017	-3.6145
15430	07111758	424	171.1	143.4	-4.0776	-3.0967
		425	147.3	566.7	-4.4431	2.8607
		429	667.7	686.0	3.4628	4.5779
		436	623.3	313.1	2.7852	-0.7015
		437	641.3	57.7	3.0842	-4.2713
		1534	198.6	21.4	-3.6769	-4.8441
		1535	489.6	57.9	0.7556	-4.2650
15431	07111898	1521	108.1	564.3	-5.0607	2.8328
		1523	121.5	342.3	-4.8233	-0.2889
		1530	45.0	139.0	-6.0277	-3.2309
		1540	346.6	603.9	-1.3996	3.4427
		1541	543.0	609.5	1.5784	3.4551
		1542	259.9	425.5	-2.7132	0.8840
		1543	523.3	223.3	1.2621	-1.9526
		1550	703.4	354.5	3.9918	-0.1170
15527	07147668	610	159.9	396.0	-4.2313	0.4687
		611	136.9	591.2	-3.8408	3.2043
		613	444.6	143.9	0.0693	-3.0591
		614	689.5	118.6	3.8074	-3.4156
		629	743.4	402.8	4.5988	0.5699
		631	556.8	432.8	1.7752	0.9745
15528	07147738	603	80.0	150.0	-5.4663	-3.0458

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
15528	07147738	612	205.2	661.5	-3.5797	4.1920
		613	504.4	669.1	0.9962	4.2956
		614	734.8	641.4	4.4863	3.9706
		615	83.3	236.5	-5.4014	-1.0870
		616	161.7	512.5	-4.2129	2.1019
		617	250.0	84.0	-2.8864	-3.9215
		618	573.4	81.4	2.0356	-3.9350
		624	499.4	291.4	0.9045	-1.0004
		625	593.3	392.7	2.3237	0.4131
		626	721.9	499.9	4.2688	1.9376
15530	07147808	617	325.9	657.4	-1.7197	4.1210
		618	634.9	652.1	2.9664	4.0784
		620	187.3	258.2	-3.8210	-1.4697
		621	658.2	442.3	3.3044	1.1111
		622	793.0	251.2	5.3741	-1.5561
		1372	685.9	20.3	3.7973	-4.8076
15531	07147948	618	176.0	545.2	-4.0001	2.5556
		621	194.1	365.0	-3.7117	0.0331
		622	318.3	202.0	-1.8458	-2.2510
		623	402.0	662.0	-0.5602	4.1838
15627	07183648	427	67.2	154.9	-5.6763	-2.9807
		433	377.4	36.5	-0.9524	-4.5709
15628	07183718	427	158.5	690.3	-4.3271	4.6151
		433	441.7	588.3	0.0453	3.1526
		434	166.9	227.1	-4.1316	-1.9082
		435	551.9	117.1	1.7006	-3.4359
15630	07183738	435	603.5	667.1	2.4932	4.2836
		436	60.5	422.8	-5.7717	0.3351
		437	79.3	191.5	-5.4779	-2.4419
		438	301.3	158.2	-2.1043	-2.8644
		439	779.0	133.1	5.1795	-2.5147
		440	717.0	18.2	4.2952	-4.8461
15631	07183928	438	164.6	646.4	-4.2128	3.9809
		439	597.6	676.9	2.4011	4.4204
		440	542.8	531.9	1.5694	2.3586
		441	692.0	434.9	3.8138	1.0053
		442	784.3	363.0	5.2232	0.0072
		443	706.7	656.5	4.0516	4.1679

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
15631	07183928	1200	650.9	57.8	3.2325	-4.2781
		1201	263.3	173.3	-2.6790	-2.6601
		1546	70.0	246.5	-5.6166	-1.6647
		1547	57.8	78.3	-5.8552	-4.1350
15702	07216758	49	406.8	49.8	-0.5061	-4.3874
		198	742.6	656.4	4.6065	4.1945
		229	149.2	410.6	-4.3972	0.6671
		232	327.4	538.6	-1.6904	2.4556
		233	138.8	170.0	-4.5651	-2.7305
15727	07219628	628	320.3	154.9	-1.8162	-2.9054
		629	227.2	257.8	-3.2154	-1.4662
		631	48.4	263.2	-5.9508	-1.4259
		634	669.7	397.1	3.4739	0.4819
		635	717.1	447.2	4.1967	1.1933
		636	755.3	273.8	4.7915	-1.2401
		637	641.1	256.5	3.0494	-1.4890
		638	782.2	141.8	5.2478	-3.0916
15728	07219698	623	303.6	92.8	-2.0729	-3.7821
		625	75.4	231.0	-5.5333	-1.8769
		626	199.7	352.0	-3.6266	-0.1426
		628	383.3	679.1	-0.3373	4.4295
		643	768.5	80.8	5.0654	-3.9562
		644	767.2	277.3	4.9746	-1.1900
15730	07219768	621	154.7	289.5	-4.3137	-1.0297
		622	289.7	113.1	-2.2824	-3.4989
		623	374.4	660.9	-0.9791	4.1700
		624	81.2	676.2	-5.5705	4.4470
15827	07255678	446	534.5	126.6	1.4356	-3.3033
		447	769.2	60.3	5.0964	-4.2514
		449	614.5	635.5	2.6567	3.8331
15828	07255748	444	93.2	80.2	-5.2375	-4.0570
		445	660.3	59.8	3.3792	-4.2452
		446	568.1	663.3	1.9592	4.2189
		447	795.2	591.9	5.4079	3.2852
15830	07255818	450	611.6	420.7	2.6000	0.8041
		442	213.0	165.6	-3.4401	-2.7734
		443	121.5	472.1	-4.8306	1.5301

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
15330	07255818	444	172.4	644.5	-4.0886	3.9540
		445	712.5	622.6	4.1385	3.6834
		452	731.0	96.7	4.4672	-3.7334
		453	666.7	345.4	3.4340	-0.2503
15903	07288788	66	235.2	663.8	-3.1190	4.2115
		160	121.4	617.4	-4.8832	3.5710
		176	230.5	506.2	-3.1658	2.0025
		177	451.6	557.9	0.1903	2.7163
15921	07291238	634	250.9	522.2	-2.8533	2.2360
		635	319.9	612.2	-1.8063	3.4902
		636	346.9	302.0	-1.4034	-0.8447
		637	190.1	279.6	-3.7777	-1.1648
		638	364.4	80.4	-1.1506	-3.9521
		639	608.6	518.9	2.5611	2.1859
		640	755.6	369.7	4.7861	0.1061
		641	542.1	49.7	1.5605	-4.3757
		642	718.7	50.8	4.2898	-4.3720
15923	07291308	641	444.6	501.2	0.0869	1.9336
		642	615.4	501.9	2.6627	1.9471
		643	190.5	29.5	-3.7990	-4.7290
		646	682.2	42.2	3.7245	-4.4906
		647	437.3	56.0	-0.0399	-4.2911
		648	289.9	223.2	-2.2732	-1.9482
15925	07291378	643	87.8	92.4	-5.3683	-3.8827
		644	90.0	347.8	-5.3071	-0.2181
		645	108.7	445.6	-5.0221	1.1599
		646	580.8	466.3	2.1390	1.4443
		647	343.4	477.8	-1.4464	1.6103
		648	205.4	632.3	-3.5679	3.7788
		649	758.4	610.4	4.8382	3.5329
		651	463.2	256.6	0.3547	-1.4842
		652	779.8	154.2	5.2048	-2.9182
15928	07291658	653	247.2	71.9	-2.9302	-4.0934
		639	120.5	651.9	-4.9051	4.0718
		640	216.5	591.1	-3.3872	3.2011
		641	75.8	402.4	-5.5294	0.5510
		642	197.9	419.0	-3.6544	0.7932
		646	262.3	139.5	-2.6956	-3.1293
		649	397.9	257.7	-0.6338	-1.4669

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
15928	07291658	650	750.9	46.4	4.8133	-4.4454
		665	725.6	393.6	4.3273	0.4358
		666	653.5	498.7	3.2347	1.9060
		667	714.3	659.2	4.1719	4.2201
15929	07291728	646	316.9	673.6	-1.8587	4.3500
		650	781.0	576.3	5.1804	3.0510
		651	232.3	527.2	-3.1278	2.3056
		652	479.8	482.5	0.6178	1.6695
		653	72.7	380.8	-5.5738	0.2448
		654	557.5	104.5	1.7873	-3.6128
		655	604.3	22.3	2.5266	-4.7681
		661	667.5	199.2	3.4531	-2.2923
		662	713.3	352.1	4.1426	-0.1489
15931	07291798	654	609.1	666.3	2.5759	4.2728
		655	652.3	591.8	3.2194	3.2209
		656	701.7	18.3	4.0500	-4.8423
		657	694.9	175.9	3.8738	-2.6187
		658	608.1	404.0	2.5453	0.5688
		1380	39.3	90.8	-6.1432	-3.9626
		1381	48.0	304.0	-5.9582	-0.8500
		1382	316.1	66.4	-1.8858	-4.1602
16027	07327638	449	86.7	563.7	-5.4008	2.8263
		454	416.2	143.3	-0.3627	-3.0670
		455	779.1	684.9	5.2267	4.6556
		456	709.3	364.6	4.0816	0.0273
		457	729.1	104.8	4.4332	-3.6142
16028	07327708	445	116.2	16.4	-4.9679	-4.9883
		446	43.1	593.0	-6.1234	3.2496
		447	253.9	558.2	-2.8080	2.7379
		450	70.3	359.2	-5.6089	-0.0604
		451	378.6	91.8	-0.9337	-3.7933
		454	462.0	633.2	0.3523	4.4907
		457	761.3	636.3	4.8972	3.9132
		459	740.0	65.6	4.6201	-4.1702
		460	711.4	217.7	4.1245	-2.0320
16030	07327778	445	188.6	584.9	-3.8144	3.1130
		451	438.4	663.0	-0.0074	4.2001
		452	224.5	65.9	-3.2759	-4.1877
		453	148.6	303.0	-4.4059	-0.8425

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
16030	07327778	459	785.1	626.3	5.2625	3.7830
		462	765.2	111.1	4.9951	-3.5309
		463	737.1	401.0	4.5023	0.5394
		1215	412.7	138.5	-0.4164	-3.1382
16031	07327848	459	87.4	526.5	-5.3719	2.2921
		461	307.3	532.3	-1.9966	2.3673
		462	88.1	48.3	-5.3960	-4.5487
		463	44.8	312.8	-6.0080	-0.7312
		464	558.8	402.7	1.7997	0.5465
		465	556.4	86.0	1.7700	-3.8781
		466	573.9	652.4	2.0416	4.0598
		1231	299.3	77.2	-2.1420	-4.0147
16128	07363618	663	667.1	29.7	3.4960	-4.6670
		664	384.4	111.5	-0.8450	-3.5128
		665	149.6	360.5	-4.3899	-0.0280
		666	91.4	456.4	-5.2920	1.3121
		667	173.2	628.2	-4.0670	3.7267
		668	774.0	15.2	5.2090	-4.9032
		669	712.3	202.7	4.1394	-2.2394
		670	669.7	413.0	3.4784	0.7032
		671	772.6	512.3	5.0450	2.1292
		672	762.2	638.8	4.9124	3.9516
16129	07363688	650	214.2	570.7	-3.4187	2.9155
		659	550.5	113.8	1.6795	-3.4821
		660	281.5	16.0	-2.4174	-4.3885
		661	96.5	183.0	-5.2105	-2.5533
		662	138.5	337.6	-4.5611	-0.3537
		663	699.8	573.0	3.9374	2.9700
		664	431.8	652.8	-0.1077	4.0572
		675	698.1	357.9	3.9113	-0.0683
		676	640.4	265.1	3.0385	-1.3715
16131	07363758	655	111.8	533.7	-5.0156	3.1043
		657	159.0	184.7	-4.2562	-2.5141
		658	71.5	397.2	-5.5961	0.4746
		659	601.1	681.3	2.4564	4.4885
		660	341.3	593.7	-1.4801	3.2289
		680	704.3	490.6	4.0015	1.8000
		681	602.0	370.9	2.4546	0.1063
		682	622.7	173.0	2.7730	-2.6588
		683	721.5	32.0	4.3515	-4.6497

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
16131	07363758	1397	338.1	18.9	-1.5554	-4.8354
16227	07399598	455	234.5	689.4	-3.1311	4.5835
		456	122.6	355.8	-4.8062	-0.0995
		457	125.2	108.4	-4.7879	-3.6228
		458	363.8	131.5	-1.1589	-3.2345
		467	691.2	116.3	3.8346	-3.4503
		468	721.9	397.6	4.2708	0.4904
16228	07399668	457	184.9	637.4	-3.8898	3.8529
		458	407.1	660.7	-0.4823	4.1672
		459	154.2	79.2	-4.3481	-4.3275
		460	119.6	222.5	-4.8579	-1.9882
		461	391.9	107.7	-0.7315	-3.5688
		466	697.9	287.2	3.9106	-1.0622
		467	717.4	639.2	4.2142	3.9238
16230	07399738	459	217.9	635.3	-3.3740	3.8173
		461	444.5	664.5	0.0859	4.2205
		462	213.4	129.8	-3.4371	-3.2810
		463	172.7	405.6	-4.0370	0.6007
		464	716.4	549.0	4.1857	2.6296
		465	710.9	208.0	4.1181	-2.1688
		1231	433.2	181.7	-0.1029	-2.5333
16327	07435578	668	157.5	56.1	-4.3036	-4.3604
		669	103.8	230.4	-5.0986	-1.8778
		670	92.2	421.6	-5.4312	0.8220
		671	191.0	532.8	-3.7679	2.3857
		672	201.2	656.7	-3.6418	4.1253
		673	760.4	104.0	4.9232	-3.6269
		674	373.7	141.1	-1.0075	-3.0971
		692	776.6	200.2	5.1338	-2.2719
		693	636.4	270.4	2.9785	-1.2961
		696	734.8	426.5	4.4651	0.9032
		697	550.7	646.5	1.6930	3.9796
		698	676.9	654.2	3.6011	4.1256
16328	07435648	663	119.9	602.2	-4.8987	3.3659
		668	217.5	598.7	-3.3723	3.3067
		673	788.5	631.2	5.3186	3.8598
		674	419.2	679.9	-0.2987	4.4395
		675	105.6	394.8	-5.0621	0.4460
		676	52.2	301.7	-5.8916	-0.8793

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
15328	07435648	677	590.3	35.9	2.3041	-4.5729
		678	418.5	73.1	-0.3257	-4.0524
		679	241.8	91.7	-3.0103	-3.8126
		687	551.2	221.3	1.5672	-1.9784
		690	599.7	552.2	2.4304	2.6528
		691	689.1	400.7	3.7720	0.5324
16330	07435718	677	634.2	602.7	2.9484	3.3730
		678	470.3	640.9	0.4769	3.8898
		679	302.7	657.9	-2.0758	4.1297
		680	137.6	540.1	-4.5874	2.4373
		681	48.4	413.9	-5.9609	0.7089
		682	71.5	230.8	-5.5946	-1.8835
		684	762.8	422.3	4.8945	0.8467
		685	551.2	406.3	1.6987	0.6020
		686	681.3	209.3	3.6636	-2.1513
		1407	429.0	47.9	-0.1669	-4.4088
16427	07471558	467	60.3	174.7	-5.7795	-2.6994
		468	107.4	439.4	-5.0402	1.0723
		470	302.2	80.5	-2.0952	-3.9591
		472	764.7	28.2	5.0489	-4.7124
		473	634.5	240.4	3.7085	-1.7151
16428	07471628	464	71.6	91.8	-5.6180	-3.9045
		466	92.6	367.1	-5.2655	0.0526
		470	353.7	623.2	-1.2924	3.6408
		471	445.5	70.4	0.0852	-4.0896
		472	796.6	564.9	5.4218	2.8940
		476	756.1	355.1	4.7952	-0.1020
		477	606.8	107.3	2.5431	-3.5739
16430	07471698	464	149.1	652.4	-4.4537	4.0694
		465	145.0	331.0	-4.4615	-0.4478
		471	499.2	637.8	0.9154	3.8482
		477	656.1	668.0	3.2873	4.3132
		478	650.7	457.4	3.1913	1.3214
		1232	616.6	157.3	2.6826	-2.8783
		1233	501.5	92.9	0.9352	-3.7763
		1234	382.1	43.1	-0.8819	-4.4817
		1235	761.6	271.3	4.8395	-1.2795
16502	07504598	242	206.6	444.9	-3.5241	1.1516
		243	366.2	265.3	-1.1151	-1.3654

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
16502	07504598	245	90.0	357.7	-5.3080	-0.0820
		357	493.0	24.7	0.8127	-4.7360
		358	682.0	363.7	3.6642	0.0069
16527	07507468	692	219.1	42.6	-3.3607	-4.5221
		693	83.1	99.7	-5.4381	-3.7782
		694	368.4	135.8	-1.0879	-3.1706
		695	750.4	128.7	4.7537	-3.2759
		696	193.3	268.2	-3.7283	-1.3240
		697	44.9	472.3	-6.0243	1.5347
		698	164.6	500.9	-4.1663	1.9420
		699	780.7	41.1	5.2977	-4.5262
		700	774.5	290.3	5.0852	-1.0058
		1185	664.8	649.7	3.4177	4.0584
		1186	630.6	499.6	2.8935	1.9168
		1187	507.8	404.1	1.0361	0.5761
16528	07507538	1188	369.1	574.2	-1.0554	2.9588
		673	258.5	493.0	-2.7356	1.8288
		688	280.3	110.6	-2.4242	-3.5335
		689	716.8	92.2	4.2479	-3.7886
		690	72.4	381.5	-5.5789	0.2568
		691	150.3	239.6	-4.3824	-1.7322
		692	280.4	585.6	-2.4051	3.1212
		693	158.1	633.3	-4.3056	3.8013
		694	424.7	672.0	-0.2154	4.3299
		695	784.6	652.8	5.2616	4.1795
16530	07507608	677	122.9	435.8	-4.7999	1.0244
		684	246.9	268.8	-2.9175	-1.3112
		685	49.4	232.1	-5.9365	-1.8705
		686	176.6	51.0	-4.0126	-4.4252
		687	94.6	600.9	-5.2987	3.3512
		688	341.1	665.6	-1.4879	4.2367
		689	755.2	641.0	4.8038	3.9791
		1415	450.1	107.9	0.1523	-3.5638
16627	07543448	473	70.0	143.6	-5.6332	-3.1454
		475	384.2	54.7	-0.8483	-4.3143
		485	732.8	295.7	4.4427	-0.9376
		486	721.7	564.0	4.2697	2.8513
16628	07543518	472	235.0	551.4	-3.0961	2.6444
		475	466.9	659.9	0.4261	4.1598

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
16628	07543518	476	186.2	332.3	-3.9322	-0.4211
		479	612.0	25.9	2.6448	-4.7154
		481	788.8	95.0	5.3906	-3.9001
		482	791.3	543.4	5.3388	2.5823
16630	07543588	473	149.7	489.8	-4.3953	1.7823
		479	696.6	652.5	3.9005	4.1077
		480	702.8	318.6	3.9856	-0.6201
		1232	127.7	193.8	-4.7345	-2.3936
		1241	478.3	137.9	0.5802	-3.1462
16713	07578518	1169	692.6	62.7	3.8786	-4.2018
		1170	700.0	437.2	3.9370	1.0471
		1171	757.2	659.7	4.8350	4.2603
		1172	533.6	356.2	1.4234	-0.0976
		1173	427.1	49.2	-0.1947	-4.3869
		1175	77.1	6.6	-5.5919	-5.1750
		1176	249.0	59.1	-2.9038	-4.2738
16715	07578588	1169	758.8	686.2	4.8620	4.5963
		1173	494.6	682.3	0.8469	4.4821
		1175	148.3	622.9	-4.4534	3.6536
		1176	320.2	690.0	-1.8099	4.5818
		1177	778.3	308.3	5.1412	-0.7527
		1178	710.0	578.0	4.0943	3.0485
		1179	555.0	347.6	1.7468	-0.2166
		1180	769.3	38.8	5.1164	-4.5557
		1181	556.1	28.8	1.7801	-4.6690
		1182	432.3	93.8	-0.1170	-3.7588
		1183	207.7	83.1	-3.5231	-3.9419
		1184	30.7	237.9	-6.2291	-1.7971
16718	07578938	1181	637.0	637.0	2.9969	3.8663
		1182	525.1	644.5	1.3067	3.9495
		1183	356.1	565.2	-1.2520	2.8324
		1184	189.8	611.2	-3.7992	3.4833
		1185	477.1	540.4	0.5818	2.4824
		1186	392.4	226.2	-0.7191	-1.9041
		1187	202.8	58.0	-3.6080	-4.3061
		1188	44.3	413.4	-6.0234	0.7032
16727	07579428	695	35.9	294.1	-6.1456	-0.9906
		699	58.7	218.9	-5.7923	-2.0554
		700	71.2	443.0	-5.6046	1.1225

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
16727	07579428	701	126.2	70.3	-4.7809	-4.1720
		702	722.3	59.6	4.3424	-4.2500
		710	717.6	236.4	4.2171	-1.7678
		711	773.4	334.8	5.0609	-0.3831
		712	776.5	451.5	5.1003	1.2657
		713	710.3	562.0	4.1037	2.8189
		714	726.9	633.0	4.3588	3.8425
		1189	384.0	590.8	-0.8297	3.1897
		1190	726.3	633.5	4.3497	3.8494
		1191	295.6	657.6	-2.1841	4.1286
		1192	634.2	604.7	2.9486	3.4048
16728	07579498	689	49.3	366.4	-5.9381	0.0397
		701	223.0	681.4	-3.3075	4.4721
		702	786.5	657.1	5.2924	4.2442
		703	303.8	31.9	-2.0753	-4.6540
		704	485.4	65.3	0.6922	-4.1595
		705	673.0	20.6	3.5921	-4.7965
		717	688.1	517.0	3.7560	2.1722
		718	776.2	107.6	5.1696	-3.5770
16730	07579568	703	387.7	654.8	-0.7770	4.0836
		704	561.3	682.5	1.8566	4.4950
		705	741.3	635.5	4.5836	3.8870
		706	215.4	61.3	-3.4147	-4.2548
		708	288.0	112.1	-2.3077	-3.5139
		709	749.4	210.3	4.7067	-2.1322
		721	737.6	406.5	4.5099	0.6186
		1424	377.1	19.4	-0.9590	-4.8165
		1425	413.6	317.3	-0.3930	-0.6364
16731	07579708	706	183.9	549.2	-3.8800	2.6122
		707	622.5	625.6	2.7735	3.6909
		708	251.0	599.3	-2.8592	3.3105
		709	674.2	689.7	3.5625	4.6357
		1418	99.5	249.6	-5.1615	-1.6092
		1419	325.3	224.8	-1.7374	-1.9296
		1420	475.8	344.1	0.5485	-0.2679
		1424	330.0	517.0	-1.6492	2.1560
		1426	618.3	250.6	2.7022	-1.5786
		1428	543.2	30.6	1.5810	-4.6513
16827	07615338	484	514.2	41.8	1.1362	-4.4866
		485	118.0	230.9	-4.8798	-1.8658

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
16827	07615338	486	138.4	501.1	-4.5702	1.9430
		526	648.5	543.9	3.1631	2.5463
		527	617.3	389.4	2.6863	0.3695
		530	721.3	139.5	4.2925	-3.1224
		1096	478.2	578.6	0.5932	3.0188
		1097	336.4	641.8	-1.5570	3.9028
		1098	741.5	623.8	4.5820	3.7185
16828	07615408	481	182.5	51.9	-3.9217	-4.4085
		482	186.8	500.2	-3.8279	1.9341
		483	401.6	30.6	-0.5837	-4.6521
		484	587.4	647.0	2.2470	3.9959
16830	07615478	479	120.0	610.3	-4.8976	3.4807
		480	130.0	286.3	-4.6885	-1.0780
		481	278.0	630.8	-2.4549	4.4550
		483	483.4	663.6	0.6766	4.2140
		1242	360.0	158.6	-1.2164	-2.8539
		1243	554.8	83.3	1.7483	-3.9091
		1255	716.6	156.9	4.2387	-2.8813
16902	07648448	242	242.0	514.2	-2.9881	2.1245
		243	352.0	239.8	-1.3263	-1.0171
		244	73.8	64.4	-5.5315	-4.3099
		245	97.3	465.2	-5.2044	1.4359
		357	408.9	20.3	-0.4729	-4.7964
		358	675.1	295.1	3.5635	-0.9511
16907	07650198	1100	644.2	662.3	3.1061	4.2330
		1101	241.6	684.5	-3.0207	4.5135
		1102	372.9	593.7	-0.9988	3.2311
		1103	558.5	648.7	1.8104	4.0143
		1107	734.6	498.2	4.4615	1.9191
		1108	731.7	254.3	4.4305	-1.5153
		1109	532.2	126.7	1.4017	-3.2995
		1110	371.2	395.5	-1.0293	0.4618
16909	07650268	1115	704.6	454.8	4.0076	1.2962
		1116	626.1	217.1	2.8234	-2.0409
		1117	792.5	643.7	5.3851	4.0474
		1118	589.0	565.3	2.2658	2.8365
		1119	248.3	12.0	-2.9209	-4.9617
		1120	687.7	48.4	3.8093	-4.4060
		1121	373.8	4.1	-1.0080	-5.0360

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
16909	07650268	1122	552.2	18.4	1.7244	-4.8197
16911	07650338	1119	323.2	647.5	-1.7608	3.9821
		1120	753.6	676.6	4.7821	4.5125
		1121	448.7	639.7	0.1492	3.8734
		1122	622.1	654.1	2.7731	4.1046
		1123	802.1	523.4	5.5949	2.3051
		1124	677.1	468.6	3.5913	1.4874
		1125	674.4	265.3	3.5546	-1.3646
		1126	483.0	420.9	0.6639	0.8102
		1131	619.6	49.2	2.7521	-4.3846
		1132	458.8	41.3	0.2884	-4.4952
		1133	149.3	23.6	-4.4372	-4.8429
		1134	99.5	26.9	-5.2241	-4.8459
		1143	229.9	429.7	-3.1678	0.9431
		1144	37.1	114.0	-6.1618	-3.6081
		1145	24.9	505.1	-6.3649	1.9970
		1146	282.4	229.5	-2.3868	-1.8623
16913	07650408	1131	661.7	689.8	3.3717	4.6319
		1122	504.5	686.1	0.9979	4.5376
		1133	202.0	658.7	-3.6297	4.1515
		1134	151.5	655.9	-4.4164	4.1188
		1137	789.5	569.5	5.3121	2.9604
		1139	792.9	446.4	5.3521	1.1990
		1141	524.3	269.4	1.2807	-1.3058
		1142	644.9	243.2	3.1079	-1.6739
		1150	233.4	420.1	-3.1138	0.8094
		1151	382.9	199.2	-0.8644	-2.2829
		1152	277.3	267.6	-2.4573	-1.3272
		1161	621.9	31.8	2.7959	-4.6294
		1162	166.8	30.1	-4.1614	-4.7321
		1163	383.5	29.0	-0.8592	-4.6740
		1164	87.0	27.0	-5.4209	-4.8569
16915	07650478	1157	598.0	358.1	2.3964	-0.0676
		1158	529.2	319.1	1.3575	-0.6131
		1160	738.5	428.4	4.5209	0.9322
		1161	678.7	671.5	3.6308	4.3782
		1162	227.8	667.9	-3.2291	4.2790
		1163	442.3	672.5	0.0536	4.3364
		1164	150.2	657.3	-4.4359	4.1397
		1165	550.3	80.1	1.6815	-3.9487
		1166	432.5	45.5	-0.1129	-4.4368

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
16915	07650478	1167	61.1	94.9	-5.7831	-3.8675
		1168	342.2	29.9	-1.4913	-4.6710
16918	07650828	1165	631.7	633.5	2.9180	4.5345
		1166	551.7	626.3	1.7038	3.6968
		1167	254.9	533.2	-2.7915	2.3904
		1168	487.1	587.2	0.7319	3.1416
		1189	139.2	105.6	-4.5714	-3.6509
		1190	657.6	157.3	3.3086	-2.8697
		1191	25.8	268.1	-6.3028	-1.3633
		1192	503.9	96.7	1.0481	-3.7158
16927	07651318	702	99.4	49.1	-5.2123	-4.5111
		710	87.4	210.3	-5.3511	-2.1673
		711	162.1	319.4	-4.1995	-0.6051
		712	178.1	437.3	-3.9552	1.0502
		713	129.5	537.6	-4.7105	2.4552
		714	157.5	612.7	-4.3055	3.5100
		715	491.0	82.3	0.7762	-3.9203
		716	637.7	66.2	3.0250	-4.1479
16928	07651388	702	179.0	625.7	-3.9761	3.6904
		715	549.8	658.2	1.6810	4.1460
		716	690.6	639.3	3.8071	3.9170
		717	76.9	469.0	-5.5202	1.4870
		718	154.1	85.8	-4.3482	-3.9298
		719	345.0	65.2	-1.4448	-4.1694
		720	663.6	89.5	3.4191	-3.8232
16930	07651458	705	154.5	607.4	-4.3528	3.4337
		707	126.4	120.1	-4.7653	-3.4513
		709	172.5	195.7	-4.0505	-2.3529
		718	246.5	695.4	-2.9473	4.6653
		719	424.8	679.0	-0.2131	4.4260
		720	729.1	689.7	4.4103	4.6863
		721	151.9	383.1	-4.3541	0.2868
		722	801.6	418.5	5.4890	0.8016
		723	758.3	184.6	4.8526	-2.4926
		1431	519.7	55.6	1.2167	-4.2968
16931	07651598	1432	354.3	339.4	-1.2886	-0.3240
		722	48.9	427.5	-5.9523	0.9047
		723	16.4	222.1	-6.4559	-2.0309
		724	213.2	146.9	-3.3628	-3.0317

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
16931	07651598	725	184.4	289.4	-3.8628	-1.0261
		726	573.1	159.0	2.0204	-2.8497
		727	369.1	518.3	-1.0549	2.1772
		728	699.7	513.1	3.9313	2.1204
		729	377.7	677.2	-0.9297	4.4035
		730	747.6	694.0	4.6818	4.7671
		741	629.7	330.2	2.8738	-0.4587
		742	667.2	72.5	3.4794	-4.0631
		1441	82.1	59.0	-5.4839	-4.3871
17007	07686108	1061	321.4	47.6	-1.8041	-4.4220
		1062	631.5	224.1	2.9044	-1.9403
		1063	564.9	402.6	1.8960	0.5541
		1064	202.0	155.1	-3.6066	-2.9196
		1065	76.9	295.4	-5.5030	-0.9611
		1069	78.3	27.6	-5.5588	-4.8562
17009	07686178	274	451.3	352.6	0.1808	-0.1415
		1061	403.0	679.6	-0.5439	4.4357
		1069	167.6	654.7	-4.1648	4.1010
		1070	269.5	230.3	-2.5793	-1.8496
		1071	99.1	352.4	-5.1665	-0.1512
		1072	145.9	499.4	-4.4545	1.9191
		1074	634.6	40.0	2.9896	-4.5142
17011	07686248	1074	704.3	687.6	4.0359	4.6396
		1076	70.5	535.8	-5.6466	2.4295
		1079	358.8	677.1	-1.2189	4.3991
		1080	114.1	16.9	-4.9983	-4.9829
		1081	233.4	190.1	-3.1274	-2.4199
		1083	630.4	18.5	2.9339	-4.8187
17013	07686318	1080	208.6	674.3	-3.5236	4.3719
		1082	48.2	605.3	-6.0503	3.4243
		1083	715.7	681.9	4.2023	4.5636
		1085	92.3	443.1	-5.2747	1.1222
		1086	66.6	125.7	-5.6885	-3.4117
		1087	315.7	170.0	-1.8848	-2.6949
		1088	203.4	35.4	-3.6018	-4.6372
		1091	663.4	27.2	3.4406	-4.6993
17015	07686388	1088	310.8	677.7	-1.9535	4.4077
		1089	55.0	459.4	-5.8603	1.3483
		1090	79.2	607.6	-5.5457	3.4468

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
17015	07686388	1091	767.0	664.5	4.9871	4.3418
		1092	160.1	205.9	-4.2350	-2.2096
		1093	433.0	34.6	-0.0274	-4.5912
		1098	169.0	21.7	-4.1267	-4.8529
17018	07686738	526	474.6	56.5	0.5295	-4.2788
		1092	298.8	645.6	-2.1344	3.9583
		1093	553.7	626.6	1.7401	3.7003
		1094	44.0	517.8	-6.0625	2.1776
		1095	112.5	632.5	-5.0222	3.7948
		1096	232.5	159.2	-3.1441	-2.8531
		1097	41.0	333.5	-6.0653	-0.4290
		1098	641.6	235.8	3.0577	-1.7768
		1099	347.6	520.6	-1.3810	2.2096
17020	07686803	526	351.2	515.4	-1.3261	2.1369
		527	271.8	224.1	-2.5475	-1.9334
		528	785.4	245.3	5.2575	-1.6336
		529	628.4	52.6	2.8861	-4.3360
		1096	126.3	603.1	-4.7957	3.3781
		1098	506.5	677.5	1.0302	4.4169
17022	07686878	488	460.8	37.3	0.3139	-4.5512
		527	176.8	656.4	-4.0215	4.1240
		528	658.5	679.9	3.3231	4.4889
		529	510.1	505.9	1.0778	1.9985
		530	264.4	247.7	-2.6543	-1.6055
		531	785.8	21.4	5.3962	-4.8121
17024	07686948	488	361.0	474.8	-1.1793	1.5682
		530	178.9	667.9	-3.9906	4.2866
		531	690.4	456.3	3.6409	1.3139
		532	319.5	24.7	-1.8367	-4.7537
		534	688.2	249.9	3.7652	-1.5801
17026	07687012	532	229.3	449.7	-3.1766	1.2223
		533	669.6	106.2	3.5053	-3.5890
		534	582.7	663.5	2.1791	4.2272
17027	07687228	486	65.3	118.6	-5.7012	-3.5149
		489	742.6	21.7	4.7000	-4.8025
		490	751.9	262.1	4.7403	-1.4063
		528	183.1	524.7	-3.8883	2.2743
		531	317.4	139.7	-1.8606	-3.1212

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
17028	07687298	487	415.6	32.7	-0.3706	-4.6219
		488	119.1	648.4	-4.9244	4.0213
		489	755.3	553.1	4.7845	2.7069
		491	770.8	181.7	5.0514	-2.5328
		531	351.4	674.0	-1.3311	4.3557
		532	96.8	347.9	-5.2027	-0.2140
		533	477.3	134.3	0.5660	-3.1946
		534	367.7	541.0	-1.0757	2.4924
17030	07687368	487	452.2	605.3	0.2043	3.3908
		493	625.9	281.7	2.8196	-1.1420
		494	668.8	19.1	3.5284	-4.8208
		533	513.4	696.9	1.1340	4.6914
		1256	60.8	135.9	-5.7800	-3.2693
		1262	277.3	128.1	-2.4696	-3.2926
		1267	775.9	27.0	5.2325	-4.7361
17127	07723208	731	156.1	46.0	-4.3256	-4.5095
		732	358.7	88.0	-1.2350	-3.8473
		733	567.1	20.7	1.9521	-4.7875
		734	642.2	74.5	3.0922	-4.0334
		735	755.7	591.0	4.7942	3.2546
		736	721.5	343.2	4.2689	-0.2713
		737	772.6	203.5	5.0694	-2.2264
17128	07723278	727	277.4	31.2	-2.4766	-4.6703
		728	666.3	76.5	3.4643	-4.0082
		729	282.6	226.5	-2.3826	-1.9040
		730	727.7	325.2	4.3628	-0.5253
		731	203.2	598.1	-3.5916	3.2983
		732	395.3	636.7	-0.6609	3.8293
		733	592.7	570.6	2.3243	2.9119
		734	665.5	615.6	3.4227	3.5661
17130	07723348	724	175.5	180.6	-4.0065	-2.5692
		725	136.2	334.2	-4.5966	-0.4046
		726	561.7	223.3	1.8448	-1.9558
		727	330.4	608.1	-1.6462	3.4300
		728	705.3	639.4	4.0293	3.9206
		741	623.1	422.1	2.7730	0.8237
		742	670.7	135.4	3.5126	-3.1845
		1441	39.8	78.9	-6.1452	-4.1494
17202	07756248	256	660.9	584.8	3.3483	3.1191

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
17202	07756248	257	265.1	550.2	-2.6379	2.6207
		305	71.9	573.3	-5.6446	2.9593
		306	303.8	227.0	-2.0629	-1.9002
		359	43.3	290.6	-6.0314	-1.0433
		368	495.6	117.9	0.8444	-3.4294
		382	208.3	95.7	-3.5186	-3.7682
		383	361.8	360.8	-1.1735	0.2506
17227	07759118	489	83.4	29.6	-5.4762	-4.8218
		490	100.6	259.2	-5.1416	-1.4694
		500	667.5	72.4	3.4855	-4.0654
		501	731.4	466.3	4.4143	1.4646
		503	749.8	136.6	4.7418	-3.1670
17228	07759188	489	134.5	577.0	-4.6527	3.0070
		491	132.2	214.8	-4.6659	-2.0929
		492	131.4	28.0	-3.9392	-4.7564
		495	758.7	18.0	4.9623	-4.8589
		498	466.2	67.4	0.4000	-4.1305
		500	689.7	610.3	3.7904	3.5011
17230	07759258	492	241.5	603.6	-3.0054	3.3728
		493	40.0	327.9	-6.0811	-0.5110
		494	90.5	85.6	-5.3283	-3.9794
		495	794.8	580.2	5.3964	3.1140
		496	635.5	165.3	2.9694	-2.7656
		498	511.2	640.5	1.0957	3.8875
		1267	194.0	95.9	-3.7363	-3.7665
17302	07792228	70	755.0	301.9	4.7796	-0.8614
		71	552.4	428.9	1.7051	0.9085
		138	647.2	37.3	3.1607	-3.8679
		221	195.5	419.6	-3.6935	0.7911
		222	276.9	454.8	-2.4576	1.2834
		223	269.2	132.5	-2.5923	-2.5359
		236	548.2	101.3	1.6427	-3.6704
		244	731.3	659.7	4.4302	4.2303
		361	386.7	687.9	-0.7967	4.5441
		362	53.6	666.7	-6.0228	4.3137
		367	741.8	465.2	4.5675	1.4389
17328	07795098	735	157.3	594.5	-4.3010	3.2528
		736	93.2	342.4	-5.2576	-0.2926
		737	134.0	213.4	-4.6367	-2.1110

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
17328	07795098	738	185.0	49.8	-3.8832	-4.4379
		739	579.1	53.4	2.1272	-4.3264
		740	736.1	131.1	4.5288	-3.2444
17329	07795168	728	57.7	113.6	-5.8297	-3.5962
		730	114.4	354.8	-4.9308	-0.1163
		734	73.3	627.7	-5.6593	3.7389
		738	239.2	606.7	-3.0405	3.4164
		739	610.8	605.0	2.5975	3.4027
		740	763.5	664.2	4.9346	4.3327
		743	301.3	110.5	-2.1068	-3.5355
		744	445.6	99.3	0.0849	-3.6849
		745	753.8	90.0	4.8276	-3.8243
		746	738.1	328.1	4.5219	-0.4827
		747	792.2	461.4	5.3423	1.4085
17331	07795238	728	122.0	663.4	-4.8925	4.2364
		741	46.5	443.3	-5.9922	1.1199
		742	100.6	175.0	-5.1483	-2.6691
		743	348.7	665.4	-1.3707	4.2324
		744	485.1	653.8	0.7025	4.0743
		745	782.0	630.3	5.2177	3.8408
		1451	312.6	313.6	-1.9203	-0.6850
		1452	450.9	178.4	0.1652	-2.5792
		1666	680.5	306.5	3.6464	-0.7925
		1667	625.6	188.5	2.8166	-2.4423
		1668	743.0	32.6	4.6968	-4.6456
		1669	789.9	520.0	5.3138	2.2452
17402	07828138	253	660.3	605.2	3.3399	3.4080
		255	137.2	600.6	-3.8390	3.3284
		256	451.0	432.9	0.1737	0.9696
		259	723.7	97.2	4.3492	-3.7319
		383	107.1	267.6	-5.0430	-1.3563
		384	351.1	430.7	-1.3346	0.9462
17427	07831008	501	113.0	454.0	-4.9578	1.2788
		502	376.1	84.8	-0.9709	-3.8902
		503	99.3	138.2	-5.1764	-3.2044
		504	766.9	90.5	5.0319	-3.8183
		505	741.2	680.7	4.5952	4.5627
		837	658.6	644.7	3.3265	3.9824
		838	512.0	539.5	1.1112	3.1723

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
17428	07831078	495	129.4	53.8	-4.7345	-4.4106
		497	378.5	29.1	-0.9362	-4.6771
		500	79.7	612.9	-5.5368	3.5218
		502	417.5	631.1	-0.3230	3.7518
		504	789.0	618.9	5.3204	3.6801
		506	737.6	298.8	4.5159	-0.8941
		507	704.9	64.4	4.0699	-4.1817
17430	07831148	495	193.5	626.3	-3.7487	3.6932
		496	55.4	207.6	-5.8471	-2.2269
		497	428.9	605.5	-0.1502	3.3921
		507	743.6	626.8	4.6168	3.7612
		508	683.1	111.7	3.7114	-3.5153
		1277	332.7	104.8	-1.6310	-3.6155
17502	07864118	171	42.0	441.0	-6.0644	1.0825
		172	151.9	457.7	-4.3589	1.3254
		222	562.6	253.1	1.8565	-1.5468
		246	543.4	616.4	1.5808	3.5444
		361	709.3	466.1	4.0755	1.4475
		362	362.2	500.1	-1.1634	1.9128
17522	07866638	780	657.5	83.9	3.3259	-3.8982
		781	721.6	538.2	4.2739	3.2016
17527	07866988	748	213.0	66.1	-3.3745	-4.1724
		749	537.8	101.3	1.4868	-3.6433
		750	774.2	172.5	5.1070	-2.6473
		780	263.0	170.6	-2.6836	-2.6813
		781	321.8	501.0	-1.7740	1.9445
		783	480.3	457.3	0.6242	1.3278
17528	07867058	740	157.0	658.0	-4.3307	4.1506
		745	132.8	97.0	-4.6734	-3.7835
		746	114.9	322.5	-4.9223	-0.5696
		747	170.5	460.8	-4.0714	1.3794
		748	248.0	591.9	-2.9031	3.2108
		749	551.5	620.5	1.7066	3.6132
		750	778.9	668.7	5.1739	-4.4134
		751	473.0	67.8	0.5037	-4.1247
		752	771.6	46.6	5.1475	-4.4464
		758	669.1	281.4	3.4738	-1.1417
		759	765.2	465.6	4.9255	1.4629

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
17530	07867128	745	137.7	654.9	-3.8516	4.1001
		751	506.9	627.0	1.0321	3.6973
		752	796.2	592.1	5.4233	3.2895
		763	779.7	481.9	5.1497	1.6973
		764	758.2	316.1	4.8303	-0.6497
		765	659.3	179.6	3.3314	-2.5649
		766	777.4	61.1	5.2277	-4.2415
		1463	499.5	102.7	0.9043	-3.6368
		1666	96.5	325.6	-5.2059	-0.5297
		1667	51.7	209.1	-5.9057	-2.2048
		1668	173.0	69.4	-4.0631	-4.1593
		1669	194.2	546.4	-3.7210	2.5744
17531	07867268	1450	51.7	541.1	-5.9513	2.5112
		1457	203.6	446.1	-3.5674	1.1761
		1458	365.3	583.1	-1.1134	3.0833
		1459	632.3	519.6	2.9179	2.1990
		1460	194.9	26.0	-3.7322	-4.7748
		1467	788.7	573.6	5.3003	3.0168
		1470	655.1	71.9	3.2924	-4.0697
17607	07901778	857	650.3	28.9	3.2373	-4.6715
		858	465.5	17.1	0.3939	-4.3344
		859	178.2	36.1	-3.9871	-4.6377
		861	708.6	283.5	4.0730	-1.1071
17609	07901848	851	385.8	42.9	-0.8237	-4.4779
		852	665.1	589.5	3.4134	3.1963
		853	755.6	488.2	4.7804	1.7827
		854	705.3	225.1	4.0307	-1.9232
		857	748.1	560.0	4.6945	4.2616
		858	569.6	655.3	1.9817	4.1090
		859	290.2	668.7	-2.2667	4.2644
17611	07901918	839	270.5	32.1	-2.5806	-4.6561
		840	691.4	403.4	3.8077	0.5733
		841	751.5	288.3	4.7322	-1.0350
		843	597.1	246.8	2.3829	-1.6226
		849	679.3	636.8	3.6364	3.8794
		851	486.8	591.1	0.7303	4.6081
17613	07901988	830	569.1	270.6	1.9587	-1.2894
		831	689.5	148.8	3.7973	-2.9879
		832	569.6	7.3	1.9973	-4.9718

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
17613	07901988	833	99.0	32.3	-5.2274	-4.7619
		839	364.1	681.0	-1.1378	4.4553
		842	768.1	646.9	5.0064	4.0807
17615	07902058	832	658.1	644.0	3.3174	3.9751
		833	191.1	659.1	-3.7990	4.1609
		834	532.1	169.1	1.3981	-2.7051
		835	489.0	63.8	0.7473	-4.1769
		836	153.6	123.3	-4.3438	-3.3834
17618	07902408	505	802.1	205.1	5.5331	-2.1967
		835	594.1	663.5	2.3513	4.2363
		836	329.6	582.1	-1.6556	3.0713
		837	660.6	121.1	3.3626	-3.3759
		838	427.6	18.2	-0.1873	-4.8216
17627	07902898	504	137.1	65.4	-4.6133	-4.2350
		505	175.1	647.6	-4.0472	3.9999
		510	416.9	128.8	-0.3511	-3.2692
		511	502.8	244.6	0.9547	-1.6513
		512	693.9	68.2	3.8968	-4.1254
		513	741.8	440.1	4.5705	1.0973
		523	433.8	672.9	-0.0764	4.3412
		524	442.0	584.9	0.0493	3.1045
		525	733.8	344.7	4.4560	-0.2479
		837	88.9	593.5	-5.3833	3.2466
17628	07902968	504	187.9	610.5	-3.8291	3.4735
		506	121.3	287.8	-4.8132	-1.0579
		507	93.9	63.9	-5.2879	-4.2979
		509	422.7	107.8	-0.2622	-3.5656
		510	450.7	669.1	0.1803	4.2893
		512	714.7	603.9	4.1723	3.4220
		514	771.0	312.3	5.0297	-0.6995
		515	732.0	73.7	4.4923	-4.0529
17630	07903038	507	156.9	635.9	-4.3253	3.8357
		508	109.8	134.0	-5.0147	-3.2598
		509	468.1	679.3	-0.4451	4.4351
		515	763.9	635.5	4.9387	3.9035
		1288	409.8	62.3	-0.4583	-4.1997
		1289	730.4	35.9	4.4645	-3.8814
17707	07937758	920	362.8	600.5	-1.1530	3.3258

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
17707	07937758	923	391.3	299.2	-0.7308	-0.3850
		969	719.5	68.1	4.2970	-4.1257
		970	796.8	300.3	5.4278	-0.8613
		971	467.0	431.6	0.4228	0.9613
		972	675.0	533.6	3.5620	3.1148
		983	155.2	22.5	-4.3434	-4.8508
		989	526.3	19.2	1.3265	-4.8035
17709	07937828	962	794.0	630.3	5.4040	3.3533
		973	688.1	113.0	3.7833	-3.4899
		974	788.9	133.3	5.3568	-3.2089
		975	782.6	328.0	5.2037	-0.4746
		976	555.1	436.5	1.7504	1.0282
		988	269.9	673.0	-2.5763	4.3452
		989	633.8	673.4	2.9498	4.3867
		991	342.8	53.0	-1.4790	-4.3393
		992	581.1	21.0	2.1682	-4.7789
17711	07937898	977	674.8	56.4	3.6045	-4.2847
		978	778.8	186.5	5.1752	-2.4587
		979	609.3	318.9	2.5672	-0.6148
		980	755.1	367.0	4.7791	0.0697
		981	615.0	558.4	2.6595	2.7464
		982	773.6	588.9	5.0637	3.2336
		991	430.0	687.4	-0.1335	4.5471
		992	663.5	656.2	3.3989	4.1514
		993	464.3	52.2	0.3718	-4.3382
17713	07937968	977	735.0	688.0	4.5003	4.6695
		993	528.5	692.1	1.3648	4.6280
		994	637.6	26.3	3.0404	-4.7067
17715	07938038	994	703.1	650.0	3.9968	4.0771
		995	266.6	233.8	-2.6232	-1.7995
		996	365.2	179.4	-1.1196	-2.5587
		997	744.4	572.0	4.6172	2.9782
		999	596.4	157.5	2.3754	-2.8679
		1000	506.9	416.7	1.0234	0.7532
		1001	679.6	227.6	3.6359	-1.8893
17718	07938388	1002	775.5	401.8	5.0915	0.5657
		782	138.2	198.3	-4.5708	-2.3221
		995	369.7	692.4	-1.0541	4.6172
		996	458.5	690.3	0.2991	4.5927

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
17720	07938458	782	42.0	543.0	-6.1075	2.5360
		783	232.7	170.3	-3.1400	-2.6974
		1670	774.6	484.3	5.0721	1.7336
17727	07938878	750	151.6	129.5	-4.3740	-3.2954
		753	383.0	623.6	-0.8455	3.6475
		754	400.9	689.4	-0.5757	4.5745
		755	772.3	647.0	5.0730	4.0825
		756	387.4	17.5	-0.8018	-4.8375
		757	538.9	36.9	1.5148	-4.5557
		785	609.9	402.8	2.5748	0.5566
		786	724.9	466.0	4.3161	1.4602
		787	461.0	464.8	0.3346	1.4248
		788	579.0	192.6	2.1097	-2.3795
		789	785.9	260.0	5.2650	-1.4300
		1670	257.1	608.1	-2.7650	3.4376
17728	07938948	750	194.8	649.7	-3.7414	4.0277
		752	175.3	34.1	-4.0321	-4.6699
		756	409.2	546.2	-0.4474	2.5649
		757	554.0	561.0	1.7414	2.7742
		758	72.3	250.3	-5.5806	-1.6034
		759	167.3	441.2	-4.1203	1.1041
		760	342.7	52.1	-1.4805	-4.3549
		761	446.8	42.0	0.1054	-4.4875
		762	603.2	93.5	2.4898	-3.7650
		790	727.3	361.5	4.3557	-0.0133
17730	07939018	752	225.3	593.1	-3.2520	3.2271
		760	384.4	611.5	-0.8253	3.4769
		761	482.5	601.3	0.6627	3.3360
		762	633.9	644.3	2.9511	3.9666
		763	208.5	480.4	-3.4944	1.6523
		764	192.8	315.2	-3.7332	-0.6632
		765	106.4	175.5	-5.0583	-2.6573
		766	228.5	70.4	-3.2143	-4.1201
		1471	462.6	125.6	0.3421	-3.3171
		1472	617.9	140.0	2.7054	-3.1174
		1473	343.4	75.4	-1.4694	-4.0269
17812	07973528	803	615.2	400.0	2.6416	0.4987
		804	283.6	220.5	-2.3836	-2.0090
		850	255.8	55.4	-2.8188	-4.3514
		852	74.5	282.4	-5.5609	-1.1697

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
17812	07973528	853	105.4	151.4	-5.0955	-3.0318
		861	340.6	507.3	-1.4971	2.0066
17814	07973598	847	720.7	213.7	4.2713	-2.1076
		848	250.3	113.7	-2.8904	-3.5176
		849	82.2	333.5	-5.4382	-0.4404
		850	588.6	611.3	2.2694	3.4639
		853	435.9	696.2	-0.0424	4.6476
		854	275.9	482.5	-2.4757	1.6579
		856	665.9	138.3	3.4402	-3.1609
		911	783.1	461.4	5.2090	1.3825
17815	07973668	807	653.6	155.2	3.2463	-2.9239
		840	309.4	660.9	-1.9792	4.1554
		841	314.9	532.3	-1.8850	2.3551
		842	152.9	312.3	-4.3485	-0.7283
		843	173.1	560.4	-4.0549	2.7539
		844	777.2	389.1	5.1172	0.3642
		845	173.9	64.0	-4.0598	-4.2603
		848	571.7	665.5	2.0105	4.2360
17816	07973738	824	792.0	357.7	5.3363	-0.0597
		830	153.1	603.1	-4.3934	3.3173
		831	208.3	443.8	-3.5124	1.0915
		832	70.2	372.5	-5.6288	0.0647
		845	474.3	613.7	0.5213	3.4814
		846	260.9	40.6	-2.7335	-4.5825
17817	07973808	829	691.0	328.1	3.8002	-0.5024
		834	105.0	532.8	-5.1002	2.3669
		835	43.6	460.9	-6.0511	1.3494
		846	551.3	587.1	1.6977	3.1244
17819	07975068	799	700.1	550.4	3.9365	2.6517
		1293	182.2	45.7	-3.9246	-4.4933
		1296	120.4	566.1	-4.8654	2.8596
		1297	443.9	530.1	0.1533	3.0424
		1298	123.0	210.0	-4.7267	-2.1561
		1299	399.1	101.5	-0.6211	-3.6476
		1300	110.3	340.7	-4.9927	-0.3092
		1301	683.7	157.6	3.7826	-2.8635
		1308	612.0	359.4	2.6064	0.0936
17821	07975208	1294	148.6	77.4	-4.4336	-4.0539

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
17821	07975208	1295	246.8	111.5	-2.9322	-3.5291
		1299	208.6	651.8	-3.5247	4.0571
		1302	64.1	453.3	-5.7150	1.2679
		1303	478.6	112.4	0.5870	-3.5003
		1304	741.6	172.9	4.5956	-2.6558
		1309	706.5	594.8	4.0455	3.2887
		1310	531.7	373.8	1.3957	0.1494
17823	07975348	1295	99.3	610.5	-5.2271	3.4852
		1303	312.4	614.0	-1.9198	3.5133
		1304	561.9	666.5	1.8647	4.2616
		1306	114.3	343.0	-4.9339	-0.2824
		1307	348.9	270.6	-1.3761	-1.2894
17903	08008038	171	414.0	237.8	-0.3943	-1.7534
		172	542.0	226.0	1.5437	-1.9225
		362	769.6	217.6	5.0130	-2.0374
17910	08009508	205	692.3	224.6	3.8315	-1.9303
		921	538.4	159.8	1.4938	-2.8348
		922	746.6	593.6	4.6562	3.2904
		961	421.7	72.3	-0.2778	-4.0593
		962	97.4	81.4	-5.2226	-4.0315
		969	153.5	142.4	-4.3436	-3.1116
		970	314.7	321.0	-1.8882	-0.5761
		971	83.1	571.5	-5.4629	2.9364
		972	327.9	634.3	-1.6865	3.7986
17912	08009578	952	391.3	42.6	-0.7409	-4.4797
		954	531.1	75.8	1.3884	-4.0072
		956	82.0	104.6	-5.4537	-3.7057
		957	797.6	66.7	5.5435	-4.1580
		958	763.2	315.9	4.9067	-0.6455
		959	592.1	432.4	2.3062	0.9733
		960	795.1	550.7	5.3966	2.6935
		961	709.3	662.2	4.0957	4.2652
		962	379.2	656.1	-0.9063	4.1045
		973	83.1	219.2	-5.4169	-2.0411
		974	179.0	192.6	-3.5511	-2.3908
		975	243.1	372.6	-2.9690	0.1476
		976	89.9	560.7	-5.3438	2.7844
17913	08009648	946	545.9	99.6	1.6106	-3.6729
		949	509.4	274.5	1.0547	-1.2309

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
17913	08009648	950	554.5	440.4	1.7420	1.0845
		951	790.1	394.3	5.3149	0.4645
		952	676.5	634.1	3.5939	3.8408
		956	356.7	680.7	-1.2513	4.4521
		977	45.4	202.4	-6.0066	-2.3018
		973	173.1	273.2	-4.0371	-1.2537
		979	70.9	461.3	-5.6113	1.3804
		980	211.0	448.1	-3.4557	1.2036
		981	160.1	676.9	-4.2877	4.4192
		982	307.3	652.0	-2.0050	4.0489
17916	08009788	997	314.8	645.9	-1.8890	3.9634
		999	80.3	317.9	-5.4552	-0.6383
		1000	74.6	532.6	-5.6041	3.0966
		1001	165.7	345.3	-4.1446	-0.2374
		1002	294.5	471.0	-2.1878	1.5220
		1003	473.5	35.7	0.5122	-4.5695
17917	08010068	927	442.9	264.6	0.0462	-1.3793
		928	362.5	66.7	-1.1809	-4.1550
		929	144.9	567.0	-4.4810	2.8590
		930	156.4	641.6	-4.3374	3.9119
		931	372.6	666.4	-1.0097	4.2428
		932	384.1	522.5	-0.8298	2.2266
		933	575.4	631.2	2.0653	3.7602
		934	641.2	480.1	3.0470	1.6359
		935	727.4	650.4	4.3710	4.0944
17921	08011188	1482	202.7	211.0	-3.5909	-2.1268
		1489	533.9	160.6	1.4244	-2.8256
18003	08044018	196	137.4	544.3	-4.5913	2.5484
		197	368.3	491.1	-1.0694	1.7948
		368	471.1	536.8	0.4887	3.1318
18012	08045488	801	387.3	667.3	-0.7323	4.2625
		802	249.9	327.5	-2.8671	-0.4849
		808	103.3	452.4	-5.1059	1.2577
		809	36.7	361.0	-6.1360	-0.0368
		810	230.0	61.2	-3.1901	-4.2447
		812	78.2	212.7	-5.4909	-2.1350
18014	08045558	28	262.7	464.5	-2.6707	1.4314
		806	79.0	338.0	-5.4756	-0.3549

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
18014	08045558	810	505.1	677.5	1.0080	4.4173
		811	262.7	649.4	-2.6879	4.0159
		813	365.2	62.1	-1.1335	-4.2080
		814	75.1	167.3	-5.5491	-2.7932
		862	732.3	628.4	4.4412	3.7814
		863	717.4	222.4	4.2164	-1.9592
		365	581.6	35.7	2.1709	-4.5707
18015	08045628	26	163.4	611.2	-4.2127	3.4882
		27	141.2	379.4	-4.5167	0.2377
		813	641.3	671.9	3.0710	4.3703
		815	46.3	408.3	-5.9841	0.6328
		818	459.5	79.3	0.2973	-3.9587
		866	686.3	319.2	3.7332	-0.6070
18016	08045698	817	312.7	675.4	-1.9223	4.3772
		818	717.7	669.3	4.2288	4.3784
		820	111.7	391.8	-4.9692	0.4065
		822	541.2	45.9	1.5484	-4.4256
		823	119.7	24.7	-4.9054	-4.8546
		867	770.9	592.0	5.0276	3.2785
		869	715.0	208.7	4.1816	-2.1499
18017	08045768	31	173.7	501.5	-4.0272	1.9490
		33	232.9	107.0	-3.1435	-3.5965
		822	788.1	633.3	5.3146	3.8944
		823	351.3	592.7	-1.3267	3.2178
		827	156.9	426.4	-4.2779	0.8950
		828	53.1	278.1	-5.8782	-1.2148
		872	681.0	589.2	3.6550	3.1938
		873	331.9	112.3	-0.8821	-3.5011
		874	761.2	362.8	4.8732	0.0112
18019	08047028	553	701.5	634.1	3.9832	4.5883
		554	647.3	500.4	3.1482	1.9352
		799	165.8	570.7	-4.1602	2.9209
		1301	176.5	202.8	-3.9874	-2.2437
		1303	92.9	392.4	-5.2573	0.4163
		1309	420.9	122.1	-0.2910	-3.3576
		1314	608.1	221.8	2.5496	-1.9674
		1315	571.8	23.5	2.0225	-4.7396
18021	08047138	1303	61.2	163.5	-5.7677	-2.3584
		1304	306.3	246.1	-2.0218	-1.6267

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
18021	08047168	1309	233.6	652.3	-3.1356	4.0611
		1310	85.4	416.8	-5.3793	0.7576
		1311	493.7	83.9	0.8172	-3.8985
		1315	371.0	561.8	-1.0253	2.7861
		1316	623.1	629.5	2.7848	3.7540
		1318	636.3	443.9	2.9732	1.1351
		1319	662.9	213.2	3.3817	-2.0244
18023	08047308	1311	338.9	568.5	-1.5154	2.3745
		1312	285.6	245.7	-2.3358	-1.6366
		1319	497.9	692.3	0.8961	4.6200
		1320	626.4	464.2	2.3230	1.4112
		1322	415.7	47.0	-0.3700	-4.4245
		1323	775.4	481.3	5.0799	1.6791
		1643	93.5	68.7	-5.2897	-4.2247
18025	08047518	1304	125.5	494.1	-4.7720	1.8349
		1311	279.3	363.1	-2.4160	0.0024
		1312	234.9	72.2	-3.1193	-4.1051
		1318	400.2	659.3	-0.5903	4.1409
		1319	421.8	478.2	-0.2608	1.6022
18105	08079928	171	392.7	244.0	-0.7166	-1.6676
		172	512.9	213.2	1.1027	-2.1010
		362	725.4	170.7	4.3394	-2.6972
18114	08081468	948	74.6	215.2	-5.5477	-2.1004
		963	51.4	386.2	-5.9097	0.3212
		964	205.9	522.4	-3.5377	2.2408
		965	116.0	631.9	-4.9672	3.7870
		966	356.2	590.0	-1.2529	3.1802
		1039	121.4	122.9	-4.8405	-3.4094
		1040	320.6	146.5	-1.8132	-3.0224
18115	08081538	936	372.7	19.7	-1.0272	-4.3064
		937	422.7	118.3	-0.2642	-3.4127
		940	112.5	339.0	-4.9616	-0.3347
		941	127.1	452.7	-4.7386	1.2643
		942	211.0	545.4	-3.4631	2.5629
		1039	453.7	656.3	0.2259	4.1101
		1040	664.1	688.2	3.4118	4.6183
18117	08081608	931	214.0	577.6	-3.4235	3.0139
		933	327.1	360.3	-1.6989	-0.0246

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{x}	\bar{y}	x_0	y_0
18117	J8031608	934	249.0	192.1	-2.8936	-2.3858
		935	461.4	230.7	0.3255	-1.8404
		936	712.5	564.5	4.1286	2.8585
		937	765.1	663.2	4.9580	4.3236
18123	J8083078	1493	712.3	72.4	4.1819	-4.0667
		1518	698.6	237.4	3.9242	-1.7535
18125	J8083218	1491	385.6	369.7	-0.8148	0.0979
		1492	297.1	325.8	-2.1551	-0.5117
		1493	526.5	563.1	1.3258	2.8001
		1494	765.4	295.8	4.9415	-0.9364
		1495	622.2	355.5	2.7583	-0.1092
18203	J8115908	305	585.7	580.0	2.2154	3.0314
		306	512.1	117.4	1.0907	-3.4465
		359	281.4	377.0	-2.3938	0.1921
		382	276.9	89.0	-2.4845	-3.8588
		383	709.6	191.0	4.0942	-2.4187
18212	J8117378	882	374.3	571.4	-0.9761	2.9193
		883	137.5	536.4	-4.5878	2.4375
		884	162.2	229.7	-4.2027	-1.8698
		885	266.4	501.9	-2.6153	1.9532
		886	708.2	261.1	4.0697	-1.4200
		888	407.6	86.1	-0.4926	-3.8660
		889	173.5	63.3	-4.0558	-4.2443
18214	J8117448	864	358.9	610.1	-1.2121	3.4609
		887	383.1	242.3	-0.8536	-1.6784
		888	747.7	653.5	4.6831	4.1647
		889	505.5	622.6	1.0108	3.6387
		890	89.1	355.8	-5.3207	-0.1032
		891	140.4	88.6	-4.5574	-3.8974
		892	352.4	44.9	-1.3333	-4.4529
		910	675.3	145.9	3.5890	-3.0283
18215	J8117518	868	307.5	633.7	-1.9984	3.7927
		891	461.6	645.6	0.3456	3.9594
		892	681.3	610.2	3.6533	3.5007
		893	111.3	331.8	-4.9716	-0.4368
		894	168.4	29.9	-4.1388	-4.7311
		895	449.8	21.2	0.1510	-4.7758
		908	513.6	397.4	1.1237	0.4839

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
18215	08117518	909	745.2	138.5	4.6676	-3.1334
18216	08117588	870	286.2	637.1	-2.3261	3.8412
		894	475.5	579.2	0.5565	3.0284
		895	771.5	583.5	5.0357	3.1571
		896	53.0	342.4	-5.8771	-0.3010
		897	70.8	590.6	-5.6695	3.2078
		898	451.4	30.3	0.1754	-4.6490
		899	238.5	126.0	-3.0567	-3.3241
18217	08117653	898	764.9	583.2	4.9340	3.1501
		899	542.2	675.2	1.5689	4.3890
		900	164.9	585.1	-4.1780	3.1187
		901	549.3	507.9	1.6689	2.0304
		902	784.0	287.6	5.2332	-1.0388
		903	774.3	117.8	5.1355	-3.4266
		904	594.6	234.3	2.3452	-1.7880
		912	88.9	361.7	-5.3226	-0.0220
18219	08118918	554	104.2	524.3	-5.0991	2.2704
		564	688.3	558.2	3.7674	2.7610
		1313	422.7	656.6	-0.2459	4.1159
		1314	80.1	241.1	-5.4583	-1.7269
		1315	62.4	52.2	-5.8031	-4.5108
		1316	314.8	144.0	-1.9004	-3.0551
		1317	535.3	32.6	1.4602	-4.6112
		1325	624.1	341.9	2.7892	-0.2897
		1326	782.2	211.7	5.2164	-2.1025
		1327	802.9	102.1	5.6018	-3.6493
18221	08119058	1316	126.5	677.8	-4.8329	4.4514
		1317	324.5	581.0	-1.7332	3.0563
		1318	147.7	492.5	-4.4258	1.8251
		1319	192.8	268.0	-3.7358	-1.3267
		1320	359.8	37.4	-1.2217	-4.5611
		1321	688.4	113.7	3.7922	-3.4844
		1323	519.0	77.8	1.2024	-3.9838
		1327	575.7	639.8	2.0722	3.8906
		1329	660.9	498.6	3.3465	1.9085
		1330	591.0	246.8	2.2900	-1.6242
18223	08119198	1320	206.8	543.4	-3.5273	2.5315
		1321	516.8	614.0	1.1824	3.5136
		1322	50.1	109.7	-5.9527	-3.6600

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
13223	08119198	1323	354.8	592.4	-1.2736	3.0700
		1331	752.7	540.8	4.7427	2.5248
		1333	501.7	108.9	0.9364	-3.5541
		1334	487.7	271.1	0.7251	-1.2870
18323	08155178	1493	106.0	600.8	-5.1151	3.3509
		1494	372.3	363.8	-1.0149	0.0168
		1499	565.4	335.2	1.9025	-0.3945
		1500	676.9	583.5	3.5905	3.1088
		1501	782.4	602.8	5.2034	3.4341
		1502	526.4	646.4	1.3262	3.9731
18403	08137874	177	50.7	551.1	-5.9745	2.6415
		196	298.9	616.8	-2.1239	3.5474
		197	499.3	502.7	0.9082	1.9413
		368	631.6	563.6	2.9041	2.8094
18419	08190884	564	145.0	608.0	-4.5029	3.4490
		1324	351.6	588.6	-1.3226	3.1638
		1325	90.3	393.1	-5.2999	0.4254
		1326	249.2	284.2	-2.8306	-1.0911
		1327	279.9	177.4	-2.4266	-2.5897
		1328	700.4	90.3	3.9928	-3.8106
		1329	382.3	38.0	-0.8731	-4.5447
18421	08191024	1321	242.4	181.5	-2.9944	-2.5408
		1327	94.7	680.8	-5.3571	4.5065
		1328	472.4	607.1	0.5072	3.4203
		1329	177.4	556.2	-3.9813	2.7133
		1330	131.1	301.7	-4.6723	-0.8617
		1331	500.1	138.0	0.9106	-3.1412
		1332	766.6	62.3	5.0500	-4.2177
		1338	700.1	488.5	3.9356	1.7755
		1340	749.6	263.0	4.7018	-1.3905
18423	08191164	1321	103.4	667.4	-5.2003	4.3061
		1331	336.6	528.4	-1.5541	3.7130
		1332	591.9	550.8	2.3119	2.6289
		1333	140.0	170.2	-4.5459	-2.7236
		1334	104.4	328.2	-5.0850	-0.4918
		1341	757.3	543.4	4.3139	2.5641
		1342	681.1	278.5	3.6553	-1.1969
		1343	627.0	20.4	2.8795	-4.7991

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
18521	08227004	1500	417.4	166.9	-0.3432	-2.7342
		1501	529.4	207.4	1.3566	-2.1694
		1502	252.3	213.4	-2.8410	-2.0871
		1503	720.2	205.5	4.2603	-2.1974
		1504	624.9	32.2	2.8414	-4.6253
		1505	541.7	485.8	1.5541	1.7188
		1506	656.3	636.9	3.2888	3.8726
		1507	787.7	502.8	5.2762	2.0025
18523	08227144	1498	333.0	35.0	-1.6324	-4.6047
		1499	181.2	380.9	-3.9093	0.2595
		1500	264.3	643.8	-2.6629	3.9358
		1501	369.4	680.3	-1.0561	4.4442
		1502	117.2	683.5	-4.9915	4.5373
		1503	549.2	676.3	1.6755	4.4017
		1504	459.6	515.0	0.3156	2.1240
		1513	788.9	528.2	5.3001	2.3590
		1514	796.0	321.7	5.4117	-0.5694
		1515	604.7	195.0	2.4981	-2.3522
		1516	681.6	71.9	3.7035	-4.0777
13525	08227354	1496	203.1	531.4	-3.5819	2.3645
		1497	254.7	696.5	-2.8204	4.6798
		1498	575.6	594.5	2.0664	3.2445
13619	08262844	585	606.7	634.6	2.5386	3.8229
		1335	350.0	527.0	-1.3477	3.6993
		1338	437.5	50.6	-0.0367	-4.3609
		1339	703.5	55.7	4.0499	-4.2962
		1345	670.8	524.5	3.4967	2.2799
		1346	673.2	298.7	3.5360	-0.8937
18621	08262984	1331	62.3	211.8	-5.7378	-2.1551
		1332	336.6	157.4	-1.5691	-2.8696
		1338	221.0	570.8	-3.3158	2.9191
		1339	476.0	581.0	0.5630	3.0538
		1341	514.1	172.6	1.1246	-2.6583
		1347	728.2	599.9	4.3757	3.3723
		1349	786.3	400.0	5.2556	0.5399
		1350	589.9	431.2	2.2724	0.9542
		1340	293.2	357.0	-2.2112	-0.0710
18623	08263124	1332	190.9	646.8	-3.7996	3.9858
		1341	355.3	661.1	-1.2635	4.1723

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
18623	08263124	1342	307.5	382.5	-1.9934	0.2806
		1343	290.5	118.2	-2.2696	-3.4295
		1351	662.9	450.6	3.3759	1.2263
		1352	747.6	553.2	4.6654	2.7022
		1354	747.7	247.4	4.6761	-1.6131
		1355	471.8	269.6	0.4856	-1.3066
18719	08298824	1505	253.7	22.9	-2.8389	-4.7894
		1506	361.3	199.7	-1.1358	-2.2704
		1507	517.1	69.7	1.1747	-4.0899
		1508	596.6	442.1	2.3745	1.1121
		1509	797.2	543.0	5.4286	2.5848
		1510	582.9	565.4	2.1764	2.8433
		1511	701.0	590.9	3.9599	3.2341
		1512	729.2	84.9	4.4434	-3.8859
18721	08298964	1501	65.1	296.1	-5.6924	-0.9516
		1503	253.4	311.2	-2.8165	-0.7134
		1504	177.7	130.5	-3.9796	-3.2736
		1507	297.9	621.0	-2.1428	3.6168
		1512	497.0	634.8	0.8819	3.8100
		1513	528.6	185.0	1.3437	-2.4836
		1525	744.3	404.5	4.6127	0.5952
18723	08299104	1513	363.7	684.7	-1.1408	4.4605
		1514	394.2	473.3	-0.6715	1.4967
		1515	211.8	324.9	-3.4459	-0.5628
		1516	310.4	207.8	-1.9614	-2.2073
		1517	553.5	210.4	1.7320	-2.1888
		1528	138.4	47.8	-4.6007	-4.5276
		1529	462.3	27.5	0.4440	-4.7439
		1530	638.6	65.3	3.0554	-4.2248
18725	08299314	1513	50.8	510.1	-5.9516	2.0653
		1514	80.4	320.5	-5.4597	-0.6085
		1517	237.2	80.9	-3.0866	-3.9756
		1521	481.7	326.1	0.6345	-0.5235
		1522	348.8	423.9	-1.3707	0.8531
		1523	453.8	131.6	-0.2035	-3.2418
		1524	180.0	378.9	-3.9235	0.2268
18819	08334874	559	630.9	571.8	2.3990	2.9410
		1339	171.0	98.5	-4.0837	-3.7291
		1344	323.9	506.0	-1.7411	2.0101

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
18819	08334874	1346	120.5	323.1	-4.8364	-0.5567
		1347	425.2	148.3	-0.2256	-2.9922
		1348	685.0	99.5	3.7433	-3.6777
		1356	611.0	420.0	2.5912	0.8020
		1357	730.7	286.7	4.4120	-1.0592
18821	08335014	1341	63.5	240.7	-5.6334	-1.7399
		1347	235.1	678.7	-3.1193	4.4346
		1348	474.3	633.6	0.5383	3.7919
		1349	307.4	489.3	-1.9916	1.7766
		1350	116.1	495.5	-4.9145	1.3649
		1351	409.0	58.6	-0.4697	-4.2565
		1352	486.1	173.5	0.7004	-2.5748
		1353	728.3	201.0	4.3870	-2.2618
		1358	786.4	537.4	5.2633	2.4955
		1360	594.1	293.0	2.3382	-0.9803
		1361	783.3	436.8	5.2917	1.0603
		1362	615.1	60.6	2.6802	-4.2255
18323	08335154	1351	240.4	511.5	-3.0111	2.0857
		1352	314.0	626.6	-1.8970	3.6905
		1353	541.4	644.4	1.5524	3.9465
		1354	352.4	320.7	-1.3186	-0.5862
		1355	77.5	313.7	-5.4981	-0.7017
		1362	435.5	513.5	-0.0499	2.1037
		1364	749.4	432.9	4.6866	0.9927
		1365	693.0	578.0	3.8339	3.0371
18903	083367844	1366	577.7	234.2	2.0865	-1.8034
		237	631.9	95.5	2.9246	-3.7506
		240	222.1	70.6	-3.3131	-4.1289
18910	083369174	363	366.3	549.9	-1.0920	2.6083
		1005	434.6	629.1	-0.0634	3.7269
		1006	439.3	325.8	-0.0030	-0.5135
		1007	275.5	294.6	-2.4824	-0.9465
		1010	253.3	30.8	-2.7677	-4.6758
13912	083369244	1011	537.0	16.2	1.4896	-4.8443
		1007	760.8	651.3	4.3923	4.1421
		1008	515.1	292.5	1.1417	-0.9813
		1009	518.1	63.1	1.1906	-4.1143
		1010	743.6	377.1	4.6021	0.2115
		1012	286.5	72.2	-2.3337	-4.0747

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
18912	08369244	1013	376.6	282.7	-0.9541	-1.1134
		1014	85.6	354.0	-5.3747	-0.1275
18913	08369314	1012	758.1	404.9	4.8247	0.6079
		1014	532.9	693.4	1.4318	4.6482
		1015	571.6	282.9	1.9964	-1.1166
		1016	478.7	145.8	0.5865	-3.0276
		1017	289.7	34.3	-2.2852	-3.9014
		1018	229.5	223.4	-3.1857	-1.9482
18919	08370854	1509	254.2	587.5	-2.8067	3.1531
		1512	218.8	139.6	-3.3531	-3.1304
		1519	483.6	572.9	0.6794	2.9438
		1520	598.7	654.0	2.4172	4.1002
		1526	582.1	106.9	2.1638	-3.5699
		1527	792.5	137.2	5.4102	-3.1497
		1532	641.1	453.7	3.0451	1.2788
		1533	766.3	336.3	4.9488	-0.3547
18921	08370994	1512	47.0	659.1	-6.1230	4.2152
		1513	102.3	237.3	-5.1205	-1.7780
		1514	160.0	26.7	-4.2671	-4.7830
		1521	617.1	67.1	2.7055	-4.1327
		1522	456.4	166.6	0.2476	-2.7395
		1524	266.0	97.0	-2.6435	-3.7286
		1525	287.4	473.2	-2.2956	1.5528
		1526	367.4	640.0	-1.0846	3.8789
		1527	565.9	665.1	1.9264	4.2490
		1538	617.1	319.4	2.6836	-0.6086
		1539	762.8	454.7	4.8893	1.3099
18923	08371134	1517	194.1	260.9	-3.7195	-1.4284
		1521	438.2	546.6	-0.0086	2.5669
		1522	286.1	641.4	-2.3234	3.3998
		1523	423.2	333.9	-0.2471	-0.4050
		1524	110.6	573.6	-5.0275	2.9638
		1529	138.8	73.9	-4.5883	-4.1127
		1530	302.4	123.4	-2.0907	-3.3541
		1540	670.4	572.6	3.4917	2.9521
		1542	569.8	411.6	1.9682	0.6750
		1543	779.8	211.6	5.1778	-2.1168
18925	08371344	1528	95.2	577.9	-5.2728	3.0259
		1529	376.0	601.7	-0.9507	3.3381

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
18925	08371344	1530	526.9	653.0	1.3400	4.0629
		1531	400.8	234.9	-0.5374	-1.0914
19011	08405224	354	83.5	334.5	-5.4047	0.2971
		1193	424.2	240.1	-0.2359	-1.7125
		1194	201.4	620.5	-3.6240	3.6117
		1195	685.7	303.4	3.7249	-0.8322
		1196	421.8	634.9	-0.2584	3.8056
		1197	328.3	557.9	-1.6749	2.7297
		2200	382.3	9.8	-0.8735	-4.9507
		2201	247.7	35.7	-2.9263	-4.6129
		2202	411.2	31.7	-0.4366	-4.6355
		2203	67.2	104.8	-5.6811	-3.7181
19012	08405294	2200	759.7	564.7	4.8525	2.8771
		2201	623.3	589.5	2.7838	3.1861
		2202	787.3	585.4	5.2884	3.1880
		2203	438.2	649.0	-0.0105	4.0033
		2204	772.8	297.8	5.0535	-0.9023
		2206	721.5	304.1	4.2690	-0.8207
		2207	672.6	162.2	3.5371	-2.8052
		2208	137.0	240.7	-4.5874	-1.7234
		2209	221.3	656.0	-3.3238	4.1107
		2210	172.2	582.8	-4.0649	3.0845
		2211	279.3	424.8	-2.4138	0.8729
		2215	191.5	17.5	-3.7840	-4.9032
		2216	338.6	18.1	-1.5464	-4.8439
		2217	221.2	157.7	-3.3153	-2.8790
		2218	148.1	46.5	-4.4483	-4.5063
19014	08405364	2215	565.2	552.6	1.9105	2.6561
		2216	716.6	559.4	4.1909	2.7832
		2217	595.6	693.9	2.3759	4.6717
		2218	520.2	579.7	1.2335	3.0349
		2219	185.1	596.4	-3.8662	3.2748
		2220	92.8	630.4	-5.3334	3.7697
		2221	97.8	425.6	-5.1858	0.8780
		2222	90.4	348.4	-5.2995	-0.2100
		2224	495.1	392.4	0.8454	0.4104
		2225	642.9	21.6	3.1256	-4.7777
		2226	704.0	180.5	4.0150	-2.5484
		2231	378.6	104.3	-0.9314	-3.6149
		2232	247.8	155.3	-2.9124	-2.9084
		2233	113.1	60.1	-4.9828	-4.3298

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
19015	08405434	2230	771.8	188.3	5.0640	-2.4361
		2231	749.1	638.2	4.7032	3.9355
		2232	613.3	687.4	2.6416	4.5827
		2233	470.4	582.6	0.4799	3.0745
		2239	69.7	207.9	-5.6224	-2.2086
		2241	272.7	634.6	-2.5320	3.8059
		2242	355.3	590.0	-1.2659	3.1785
		2243	492.8	276.7	0.8043	-1.2030
		2245	625.8	70.2	2.8401	-4.0885
		2246	391.2	56.9	-0.7419	-4.2811
		2251	216.0	85.0	-3.4019	-3.9129
		2252	109.8	71.3	-5.0324	-4.1695
		2253	38.2	163.2	-6.1237	-2.8809
19016	08405504	2251	561.0	604.9	1.8488	3.3957
		2252	446.7	579.4	0.1209	3.0295
		2259	89.6	382.5	-5.3096	0.2720
		2260	199.6	463.6	-3.6289	1.4197
		2263	398.4	27.3	-0.6324	-4.6957
		2264	525.2	217.3	1.2930	-2.0238
		2265	723.0	92.9	4.3453	-3.7761
		2266	420.3	102.1	-0.2993	-3.6416
		2275	224.5	95.7	-3.2719	-3.7578
19017	08405574	2277	227.8	47.5	-3.2275	-4.4456
		2263	747.0	541.6	4.6557	2.5412
		2266	763.6	617.4	5.0010	3.6456
		2268	559.0	334.0	1.8084	-0.4054
		2272	798.6	48.2	5.5810	-4.4252
		2273	696.2	51.7	3.9373	-4.3553
		2274	305.2	80.0	-2.0492	-3.9618
		2275	562.3	605.4	1.8683	3.4031
		2277	564.1	555.1	1.8939	2.6923
		2282	111.0	434.3	-4.9822	1.0045
		2283	93.1	328.0	-5.2576	-0.4939
		2284	277.7	460.7	-2.4420	1.3790
		2285	276.6	631.0	-2.4708	3.7569
19018	08406334	601	464.6	665.0	0.3904	4.2359
		1348	179.1	129.6	-3.9569	-3.2835
		1356	85.9	442.9	-5.3737	1.1263
		1357	209.6	321.1	-3.4735	-0.5725
		1358	524.1	62.3	1.2841	-4.1953
		1359	775.3	97.6	5.1694	-3.7125

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
19019	08406334	1363	589.4	566.1	2.2743	2.3530
19021	08406974	1353	271.6	254.5	-2.5452	-1.5083
		1358	300.9	606.6	-2.0926	3.4149
		1359	538.1	635.9	1.5084	3.8319
		1360	127.5	333.0	-4.7302	-0.4167
		1361	311.1	502.7	-1.9342	1.9629
		1362	173.8	105.3	-4.0417	-3.6328
		1364	520.7	54.1	1.2328	-4.3141
		1365	443.4	204.1	0.0529	-2.2145
		1367	509.1	401.1	1.0570	0.5343
		1368	732.8	499.8	4.4353	1.9407
		1369	698.1	250.6	3.9165	-1.5692
19103	08439874	167	241.1	602.1	-3.0141	3.3434
		259	176.7	54.9	-4.0143	-4.3833
19113	08441484	1019	170.5	486.9	-4.0736	1.7461
		1020	211.5	336.8	-3.4483	-0.3547
		1021	272.4	87.5	-2.5462	-3.8607
		1024	121.5	62.2	-4.8549	-4.2902
		1028	419.1	103.8	-0.3183	-3.6162
		1029	492.6	186.3	0.7979	-2.4622
		1054	243.0	550.0	-2.9730	2.6256
		1056	257.7	378.8	-2.7474	0.2345
19115	08441554	1021	541.5	681.0	1.5601	4.4723
		1022	190.5	643.7	-3.8056	3.9436
		1023	112.0	641.1	-5.0336	3.9184
		1024	386.8	646.9	-0.7901	3.9751
		1030	731.2	445.8	4.4103	1.1787
		1032	776.6	328.3	5.1114	-0.4697
		1033	436.7	292.9	-0.0447	-0.9723
		1034	516.5	139.8	1.1614	-3.1127
19116	08441624	1035	201.4	544.2	-3.6104	2.5460
		1036	670.4	476.0	3.4899	1.5930
		1037	729.3	173.2	4.4022	-2.6442
		1038	792.4	225.3	5.3718	-1.9114
		1046	176.3	77.4	-4.0088	-4.0357
19117	08441904	1037	85.6	237.6	-5.3756	-1.0781
		1038	96.4	356.6	-5.2094	-0.0996
		1041	359.9	524.4	-1.1962	2.2542

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
19117	08441904	1042	325.7	209.6	-1.7328	-2.1458
		1043	484.3	223.3	0.6713	-1.9562
19119	08442884	1526	52.3	154.0	-5.9034	-2.9990
		1527	249.6	200.9	-2.8827	-2.2604
		1532	87.0	486.3	-5.3634	1.7339
		1533	208.4	388.7	-3.4939	0.3755
		1534	481.3	623.9	0.6520	3.6587
		1535	748.9	655.6	4.7055	4.1992
		1536	530.3	164.9	1.3706	-2.7595
		1537	726.2	168.4	4.3553	-2.7095
		1545	660.7	526.0	3.3443	2.3001
19121	08443024	1527	98.1	681.7	-5.2978	4.5214
		1536	348.8	655.4	-1.3689	4.0963
		1537	529.0	657.0	1.3665	4.1296
		1538	164.7	354.8	-4.1570	-0.1044
		1539	293.6	505.4	-2.2013	2.0019
		1540	430.0	167.6	-0.1535	-2.7251
		1541	615.4	180.6	2.6595	-2.5473
		1546	781.2	685.5	5.2145	4.6713
		1547	759.7	534.6	4.8481	2.4465
		1548	776.1	357.3	5.0968	-0.0643
		1549	572.8	314.4	2.0136	-0.6798
19123	08443164	1521	35.4	592.0	-6.2475	3.2379
		1523	37.7	394.8	-6.1221	0.2980
		1540	251.5	649.6	-2.3592	4.0173
		1541	424.6	660.2	-0.2160	4.1607
		1542	169.1	476.6	-4.0943	1.6002
		1543	406.4	300.6	-0.5027	-0.8700
		1544	551.4	62.1	1.7005	-4.2071
		1550	561.7	439.4	1.8494	1.0643
		1551	746.6	536.7	4.6480	2.4656
		1552	697.6	672.2	3.9201	4.3997
19203	08475854	147	658.6	382.7	3.3118	0.2709
		149	293.0	371.9	-2.2143	0.1317
		198	100.1	683.1	-5.2719	4.5366
		365	724.1	379.0	4.3070	0.2242
		369	138.7	630.9	-4.6084	3.7670
19221	08479004	1364	105.1	115.7	-5.0929	-3.5265
		1367	58.3	451.8	-5.8061	1.2473

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
19221	08479004	1363	263.3	574.9	-2.6649	2.9743
		1369	253.1	323.3	-2.8188	-0.5364
		1370	294.6	67.3	-2.2107	-4.1453
		1371	778.1	103.8	5.2007	-3.6277
		1375	713.5	567.0	4.1457	2.8935
		1376	559.3	620.2	1.8245	3.6116
		1379	559.7	377.5	1.8170	0.2030
19223	08479144	1370	120.8	519.5	-4.8427	2.2008
		1371	579.5	551.1	2.1257	2.6342
		1378	591.3	450.0	2.3032	1.2148
19315	08514844	433	568.5	671.0	1.9640	4.3371
		1201	689.1	176.0	3.7869	-2.6069
		1537	207.5	132.7	-3.5203	-2.5213
		1545	124.1	541.5	-4.7944	2.5136
		1546	482.6	253.5	0.6483	-1.5224
		1547	466.8	71.9	0.4100	-4.0607
		1560	630.9	503.6	2.8947	1.9775
		1561	781.9	396.7	5.1883	0.4971
19317	08514984	1541	152.5	250.4	-4.3471	-1.5785
		1547	271.6	625.4	-2.5462	3.6803
		1548	300.2	444.5	-2.1014	1.1510
		1549	98.3	380.2	-5.1747	0.2432
		1550	325.3	28.6	-1.7406	-4.6944
		1551	517.2	157.5	1.1720	-2.8680
		1552	448.1	300.4	0.1286	-0.8695
		1558	584.9	464.9	2.2013	1.4277
19319	08515124	1559	773.5	200.9	5.0844	-2.2599
		1207	519.6	476.5	1.2192	1.5836
		1544	187.5	140.0	-3.8290	-3.1398
		1550	153.7	520.6	-4.3362	2.2162
		1551	332.6	645.5	-1.6156	3.9541
		1553	428.0	345.2	-0.1731	-0.2471
		1559	575.4	632.2	2.0702	4.4947
		1562	690.7	365.7	3.7979	0.0384
19321	08515334	1563	667.3	80.3	3.4779	-3.9569
		1544	428.0	652.9	-0.1648	4.0568
		1554	360.9	325.4	-1.1893	-0.5212
		1555	573.9	418.2	2.1073	0.7651
		1556	195.2	114.1	-3.7162	-3.5050

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
19321	08515334	1557	412.6	77.5	-0.4174	-3.9932
19323	08515404	1554	436.4	604.3	-0.0366	3.3822
		1555	649.2	694.1	3.1801	4.6837
		1556	275.0	391.2	-2.4853	0.4051
		1557	485.4	353.2	0.6945	-0.0702
		1566	549.9	536.6	1.6769	2.4266
19325	08515614	1207	420.4	673.1	-0.2804	4.4099
		1544	153.7	395.1	-4.3273	0.4539
		1553	347.3	572.3	-1.3877	2.9273
		1554	99.1	98.4	-5.1953	-3.7915
		1555	291.3	188.8	-2.2491	-2.4387
		1562	561.3	538.7	1.8513	3.1572
19417	08550894	1372	413.3	501.2	-0.3780	1.9391
		1375	428.6	86.7	-0.1728	-3.8532
		1376	262.7	121.4	-2.6906	-3.3785
		1377	577.3	170.3	2.0851	-2.6782
		1383	727.0	360.1	4.3513	-0.0268
19419	08551034	1371	338.4	145.5	-1.5430	-3.0359
		1375	224.3	595.1	-3.2591	3.2591
		1377	364.1	671.2	-1.1359	4.3187
		1378	364.4	41.3	-1.1511	-4.5029
		1379	90.3	391.2	-5.2912	0.3974
		1384	710.3	569.3	4.1057	2.9326
		1386	601.5	326.7	2.4494	-0.5069
		1387	790.2	310.1	5.3245	-0.7260
19421	08551174	1371	180.8	607.5	-3.9376	3.4332
		1373	203.3	509.6	-3.5750	2.0615
		1388	638.3	498.8	3.7596	1.9126
		1390	737.9	601.4	4.5253	3.3935
19515	08595874	440	420.2	596.4	-0.2812	3.2708
		441	574.5	515.5	2.0464	2.1411
		442	672.3	453.4	3.5333	1.2776
		1200	570.6	138.9	1.9826	-3.1227
		1201	173.3	213.5	-4.0234	-2.0920
		1202	699.5	153.3	3.9463	-2.8511
		1560	100.4	521.0	-5.1584	2.2231
		1561	244.3	439.5	-2.9420	1.0858

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
19520	03587014	1200	343.0	662.8	-1.4579	4.2003
		1202	464.0	630.1	0.3827	4.4499
		1203	723.7	532.1	4.2943	2.3957
		1204	575.6	222.9	2.0559	-1.9555
		1205	739.7	140.4	4.5796	-3.1107
		1207	233.0	33.7	-2.3910	-4.6306
		1558	103.2	493.2	-5.1132	1.8321
		1559	314.2	255.9	-1.9013	-1.4892
19521	03587154	1204	384.3	696.0	-0.8311	4.6669
		1205	539.8	617.5	1.5237	3.5669
		1206	732.9	524.8	4.4346	2.2905
		1207	103.0	519.4	-5.0413	2.1967
		1208	403.4	478.9	-0.4609	1.6208
		1209	551.1	326.5	1.6868	-0.5151
		1210	715.5	312.9	4.1765	-0.7002
		1553	34.2	380.6	-6.1776	0.2381
		1562	299.5	423.5	-2.2650	0.9241
19619	03622854	1380	451.3	437.8	0.1856	1.0527
		1381	446.8	647.6	0.1203	3.9896
		1382	713.9	422.9	4.2234	0.8545
		1383	193.2	330.7	-3.7251	0.2632
		1384	441.2	103.6	0.0171	-3.6162
		1385	694.0	28.0	3.9171	-4.6873
		1392	622.5	333.8	2.7654	-0.4030
19621	03622994	1384	232.2	659.0	-3.1593	4.1557
		1385	467.0	587.4	0.4282	3.1437
		1386	141.4	337.9	-4.5136	0.4979
		1387	333.1	403.0	-1.6062	0.5705
		1388	451.5	131.2	0.1732	-3.2343
		1389	782.3	138.7	5.2511	-3.1341
		1390	494.7	252.5	0.8317	-1.5334
		1391	723.8	231.0	4.3890	-1.8402
		1393	726.7	636.3	4.3578	3.8923
		1395	534.5	420.3	1.4391	0.8102
19623	03623134	1396	637.1	473.8	3.8953	1.5665
		1388	261.3	603.8	-2.7002	3.3767
		1389	576.7	604.5	2.0845	3.3900
		1391	522.3	692.7	1.2693	4.6337

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
19714	08658834	442	107.8	463.7	-5.0380	1.4190
		452	607.2	447.3	2.5337	1.1861
		453	524.5	573.5	1.2995	4.3656
		1202	151.6	170.1	-4.3682	-2.7140
		1203	445.7	36.3	0.0375	-4.5604
		1215	786.1	513.6	5.2513	2.1605
		1216	763.1	63.6	4.9921	-4.1922
19716	08658974	1203	231.0	606.3	-3.1669	3.4158
		1204	105.0	276.6	-5.0737	-1.2170
		1205	282.4	208.6	-2.3874	-2.1516
		1208	157.9	51.5	-4.2993	-4.4251
		1211	778.2	53.1	5.2474	-4.3533
		1206	503.8	135.0	0.9682	-3.1822
		1216	530.1	625.5	1.3827	3.6831
		1217	729.0	626.0	4.3900	3.7452
		1218	777.8	289.4	5.1363	-1.0181
19718	08659114	1205	107.8	691.5	-5.1536	4.6591
		1206	309.1	624.1	-1.9722	3.6572
		1209	143.3	399.2	-4.4853	0.5137
		1210	315.3	403.1	-1.3755	0.5697
		1211	576.2	540.7	2.0749	2.4882
		1212	497.3	28.1	0.8782	-4.6833
		1213	336.0	156.5	-1.5806	-2.8842
		1219	743.6	585.4	4.6079	3.1664
		1220	777.8	445.9	5.1202	1.1835
		1221	749.0	252.1	4.6952	-1.5496
		1222	503.5	247.8	0.9632	-1.6096
19720	08659319	1212	742.0	558.2	4.5738	2.7741
		1213	592.5	639.9	2.3279	4.6118
19802	03691944	49	703.5	501.5	3.9881	1.9508
		66	560.0	328.1	1.8208	-0.4956
		70	132.4	575.3	-4.6825	2.9841
		138	294.5	351.1	-2.1925	-0.1577
		160	423.4	236.3	-0.2473	-1.0724
		161	658.1	446.4	3.3016	1.1656
		162	97.2	679.5	-5.3132	4.4868
		176	524.3	161.0	1.2767	-2.8266
		177	773.4	199.9	5.0810	-2.2833
19817	08694834	656	544.0	456.5	1.5340	1.3120

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
19923	08731144	1211	169.4	579.7	-4.1066	3.0427
		1212	160.8	65.1	-4.2507	-4.2285
		1219	332.1	648.1	-1.6244	3.9900
		1220	333.2	510.2	-0.8417	2.0601
		1221	381.0	312.4	-0.8871	-0.7041
		1222	132.4	281.4	-4.6527	-1.1475
		1223	818.6	231.0	5.7807	-1.8373
		1224	730.3	495.5	4.4024	1.8749
		1225	789.7	658.6	5.3412	4.2666
20003	08763334	49	230.4	12.9	-3.1966	-4.9635
		229	150.2	472.5	-4.3879	1.5358
		232	387.9	519.0	-0.7723	2.1769
		233	16.8	238.2	-6.4493	-1.3059
		369	307.2	396.8	5.5730	0.4853
20019	08766844	682	391.7	612.6	-0.7142	3.4904
		633	495.7	498.5	0.8596	1.8911
		1394	191.1	126.5	-3.7764	-3.3331
		1397	146.1	445.2	-4.4436	1.1551
		1398	54.9	249.1	-5.8514	-1.6292
		1399	410.3	151.3	-0.4443	-2.9583
		1400	699.1	112.9	3.9609	-3.4996
		1401	313.1	21.9	-1.9363	-4.7984
		1407	743.5	448.8	4.5973	1.2172
		1408	725.9	331.3	4.3367	-0.4408
20021	08766984	1399	199.7	573.8	-3.6676	4.3638
		1400	465.2	637.6	0.3097	3.8415
		1401	107.0	554.8	-5.0722	2.6941
		1402	15.0	412.0	-6.4843	0.6759
		1403	154.4	398.6	-4.3164	0.4993
		1404	422.2	204.5	-0.2697	-2.2164
		1406	675.0	95.8	3.5936	-3.7421
		1409	709.9	499.7	4.0863	1.9269
		1411	711.4	352.3	4.1140	-0.1502
		1412	767.2	206.2	4.9832	-2.1941
20023	08767124	1404	242.9	656.8	-2.9940	4.1145
		1405	123.1	440.7	-4.7972	1.0859
		1406	480.0	551.4	0.6226	2.6280
		1413	686.0	424.0	3.7213	0.8503
		1578	192.9	411.7	-3.7301	0.6825
		1579	285.3	26.8	-2.3534	-4.7406

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
19817	03694884	657	520.6	595.5	1.2393	3.2626
		1382	133.7	458.2	-3.8703	1.3477
		1385	195.0	81.5	-3.7208	-3.9635
		1392	100.3	361.8	-5.1478	-0.0134
		1393	458.0	167.3	0.2719	-2.7249
		1394	719.0	123.0	4.2641	-3.3478
		1397	695.1	448.3	3.8621	1.2099
		1398	587.7	259.5	2.2390	-1.4412
19819	03695024	1389	339.5	178.8	-1.5251	-2.5659
		1390	44.7	261.9	-6.0110	-1.4436
		1391	272.1	263.9	-2.5373	-1.3760
		1393	232.3	664.1	-3.1511	4.2282
		1394	473.9	621.9	0.5326	3.6235
		1395	64.3	426.9	-5.7039	0.8984
		1396	215.1	499.1	-3.3954	1.9169
		1399	679.9	618.4	3.6423	3.6168
		1401	579.5	512.8	2.1245	2.1006
		1402	471.1	379.0	0.4814	0.2283
		1403	617.7	352.4	2.6935	-0.1460
19821	03695164	1389	170.9	647.5	-4.1127	4.0007
		1404	659.1	593.8	3.3074	3.2522
		1405	520.1	397.3	1.2208	0.4732
		1578	535.2	361.2	2.2016	-0.0279
19919	03730864	462	559.8	550.0	1.8236	2.6238
		1215	233.9	538.1	-3.1095	2.4628
		1216	249.0	101.8	-2.9002	-3.6604
		1217	456.3	133.7	0.2464	-3.1958
		1229	795.2	18.4	5.5494	-4.8520
		1230	774.0	153.1	5.1133	-2.9262
		1231	763.3	593.6	4.9103	3.2989
19921	03731004	1206	69.8	159.9	-5.6334	-2.9042
		1211	355.2	104.0	-1.2833	-3.6187
		1216	53.2	628.3	-5.9919	3.7616
		1217	237.3	662.4	-3.0731	4.2034
		1218	317.9	337.9	-1.3376	-0.3387
		1219	527.4	173.3	1.3271	-2.5761
		1220	582.8	34.5	2.1886	-4.5889
		1229	559.0	550.2	1.8169	2.5250
		1230	532.9	677.0	1.4281	4.4147

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
20023	08767124	1580	573.3	466.6	2.0235	1.4403
20201	08835864	66	708.9	74.5	4.1256	-4.0517
		70	387.3	415.9	-0.7835	0.7345
		71	112.7	393.7	-4.9562	0.4219
		139	470.4	153.8	0.4561	-2.3639
		160	570.8	65.5	1.9936	-4.1693
		162	380.3	530.1	-0.8808	2.3296
		233	755.9	466.5	4.7807	1.4612
		236	369.7	108.5	-1.0727	-3.5694
20217	08838804	686	441.1	645.5	0.0330	3.9608
		1400	203.0	143.6	-3.5936	-3.0779
		1407	224.1	476.1	-3.2574	1.5973
		1408	213.1	358.1	-3.4238	-0.0528
		1409	475.0	25.7	0.5374	-4.7073
		1410	790.8	87.6	5.4169	-3.8511
		1415	694.4	693.7	3.8737	4.7314
		1416	710.9	259.6	4.1089	-1.4352
20219	08838944	1406	246.8	130.6	-2.9310	-3.2528
		1409	239.2	534.6	-3.0302	2.4129
		1410	536.0	590.8	1.4723	3.1954
		1411	252.8	388.2	-2.8203	0.3678
		1412	327.6	249.4	-1.6995	-1.5775
		1413	482.4	22.3	0.6503	-4.7588
		1414	746.0	97.8	4.6994	-3.7080
		1418	659.2	506.5	3.3215	2.0221
		1421	817.6	219.6	5.7692	-1.9895
20221	08839084	1580	356.5	53.9	-1.2714	-4.3227
		1406	66.2	581.1	-5.7373	3.0769
		1413	282.1	480.1	-2.3767	1.6489
		1414	533.4	545.7	1.4303	2.5579
		1421	602.2	656.8	2.4720	4.1364
		1422	688.0	424.1	3.7553	0.8603
20317	08874784	1580	163.4	509.2	-4.1866	2.0584
		1232	370.1	544.0	-1.0398	2.5379
		1233	270.4	474.3	-2.5542	1.5699
		1234	166.1	415.5	-4.1382	0.7466
		1235	492.1	659.3	0.8089	4.1580
		1236	327.3	167.8	-1.7108	-2.7202
		1237	326.4	10.3	-1.7361	-4.9530

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
20317	08874784	1238	571.0	19.7	2.0108	-4.7950
		1239	668.2	77.1	3.4929	-3.9918
		1240	779.0	144.5	5.1953	-3.0492
		1241	705.8	504.6	4.0241	2.0054
		1244	642.3	320.9	3.0648	-0.5846
20319	08874924	1224	89.6	134.7	-5.3275	-3.2596
		1225	116.0	325.0	-4.9060	-0.5321
		1226	800.3	145.3	5.5302	-3.0415
		1227	367.0	49.2	-1.1119	-4.3910
		1228	591.2	187.2	2.2943	-2.4541
		1236	117.6	677.6	-4.9737	4.4511
		1227	109.2	534.6	-5.0254	2.4141
		1238	335.5	543.8	-1.5647	2.5351
		1239	426.7	595.7	-0.1826	3.2586
		1240	531.7	655.6	1.4077	4.1092
		1245	639.7	538.2	3.0308	2.4653
		1246	781.3	558.5	5.1852	2.7988
		1247	806.5	483.8	5.5648	1.7363
		1250	743.9	358.9	4.6083	-0.0464
20321	08875064	1223	84.2	348.5	-5.3983	-0.2070
		1226	602.5	593.8	2.4721	3.2417
		1227	189.7	510.2	-3.7842	2.0704
		1228	401.2	638.1	-0.5712	3.8498
		1251	567.1	432.3	1.9298	0.9722
		1254	727.8	681.5	4.3877	4.5616
20403	08907684	242	233.4	421.3	-3.4964	0.8235
		243	359.2	205.7	-1.2259	-2.2034
		245	68.5	345.3	-5.6395	-0.2644
		358	708.9	265.6	4.0775	-1.3722
20419	08910694	706	479.7	351.5	0.6088	-0.1533
		708	550.7	403.8	1.6813	0.5759
		1410	254.5	110.6	-2.8164	-3.5335
		1416	156.8	275.1	-4.2836	-1.2264
		1418	395.2	30.9	-0.6815	-4.6400
		1419	640.9	10.2	3.0975	-4.9304
		1420	795.5	135.7	5.4534	-3.1702
		1424	642.8	315.4	3.0725	-0.6587
		1425	668.5	597.5	3.4661	3.3165
20421	08910834	1414	300.8	166.5	-2.1097	-2.7418

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
20421	08910834	1418	173.3	573.9	-4.0451	2.9657
		1419	402.9	553.3	-0.5425	2.6676
		1420	549.4	665.6	1.6763	4.2697
		1421	363.0	297.5	-1.1579	-0.9060
		1422	484.3	55.8	0.6765	-4.2984
		1423	740.8	68.6	4.6308	-4.1209
		1426	687.7	575.8	3.7552	3.0103
		1428	617.2	369.1	2.6858	0.0982
20513	08946674	1240	257.3	169.8	-2.7693	-2.6973
		1241	161.1	525.8	-4.2243	2.2937
		1242	582.6	596.8	2.1727	3.2895
		1243	765.6	530.1	4.9401	2.3889
		1244	110.0	332.0	-4.9939	-0.4309
		1245	384.8	53.1	-0.8399	-4.3303
		1246	538.1	97.6	1.4919	-3.7004
		1247	572.0	17.6	2.0292	-4.8231
		1248	689.3	144.5	3.8023	-3.0449
		1257	776.3	363.7	5.1025	0.0311
20515	08946814	1226	366.3	213.5	-1.1160	-2.0820
		1228	143.5	236.6	-4.4884	-1.7766
		1245	165.0	593.7	-4.1790	3.2423
		1246	307.4	638.0	-2.0009	3.8537
		1247	337.4	561.9	-1.5367	2.7883
		1248	448.0	677.2	0.1394	4.4059
		1249	564.2	694.4	1.9020	4.6718
		1250	281.7	424.9	-2.3830	0.8776
		1251	345.7	36.6	-1.4374	-4.5751
		1252	713.0	227.9	4.1474	-1.8851
		1253	710.4	64.0	4.1552	-4.1855
		1254	494.8	334.5	0.8370	-0.3965
		1259	794.9	523.0	5.3906	2.2936
20517	08946954	1226	176.0	676.4	-4.0365	4.4076
		1251	153.9	507.5	-4.3320	2.0327
		1252	500.1	636.3	0.9313	4.5392
		1253	499.7	532.0	0.9221	2.3622
20603	08979644	138	645.5	680.7	3.1238	4.4864
		160	696.8	565.0	3.8864	2.8450
		223	226.8	689.8	-3.2526	4.5875
		236	533.5	673.1	1.4333	4.3499

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
20614	08982654	707	392.6	462.3	-0.7013	1.3974
		709	437.5	537.1	-0.0193	2.4415
		1419	143.5	32.7	-4.5205	-4.7029
		1420	278.0	164.0	-2.4557	-2.7763
		1424	117.2	318.9	-4.8868	-0.6141
		1425	128.6	588.3	-4.7509	3.1725
		1426	431.6	89.0	-0.1265	-3.8202
		1427	698.4	182.0	3.9277	-2.5205
		1431	776.7	416.1	5.1066	0.7718
		1432	608.4	668.4	2.5639	4.3118
		1433	671.8	346.8	3.5114	-0.2175
20616	08982794	1422	63.0	80.0	-5.7675	-4.0888
		1423	309.0	112.1	-1.9904	-3.5056
		1426	196.4	598.0	-3.6956	3.3020
		1427	444.6	634.3	0.0831	4.5076
		1428	147.6	389.8	-4.4179	0.3865
		1429	736.2	29.9	4.5879	-4.6743
		1434	767.8	543.0	4.9756	2.5719
		1436	469.1	523.5	0.4594	2.2436
20618	08982934	1437	739.0	371.2	4.5326	0.1280
		1423	129.3	573.1	-4.7299	2.9561
		1429	536.0	489.1	1.4676	1.7628
		1430	262.2	415.8	-2.6775	0.7648
		1438	754.6	592.1	4.7777	3.2691
20716	09018554	1440	598.0	283.4	2.3962	-1.1160
		1243	215.4	546.8	-3.3959	2.5844
		1248	165.0	156.0	-4.1673	-2.9123
		1249	285.7	138.8	-2.3330	-2.4275
		1255	360.0	630.0	-1.1963	3.7409
		1256	510.2	614.8	1.0826	3.5320
		1257	232.8	380.4	-3.1241	0.2590
		1258	767.7	40.0	5.0893	-4.5342
		1259	551.3	33.6	1.7055	-4.5976
		1262	718.9	607.4	4.2361	3.4784
20718	09018704	1263	745.3	404.6	4.6235	0.6009
		1252	257.3	271.7	-2.7585	-1.2684
		1253	275.9	107.6	-2.4906	-3.5760
		1254	33.5	355.1	-6.1852	-0.1202
		1258	517.5	533.1	1.1923	3.0848
		1259	310.1	531.9	-1.9525	3.0689

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
20718	09018704	1250	745.7	43.4	4.7326	-4.4845
		1261	738.0	174.8	4.5386	-2.6256
		1266	494.1	302.7	0.8247	-0.8401
20720	09018844	1253	97.5	590.6	-5.2451	3.2051
		1260	541.1	522.0	1.5455	2.2242
		1261	530.0	648.3	1.3807	4.0014
20303	09051674	138	710.5	464.6	4.0949	1.4276
		160	731.0	346.7	4.4109	-0.2310
		223	272.2	506.5	-2.5291	2.0110
		236	596.1	464.2	2.3675	1.4086
20311	09053214	1133	451.9	26.3	0.1851	-4.7077
		1134	409.1	55.2	-0.4678	-4.3045
		1143	716.4	331.7	4.1923	-0.4319
		1144	397.5	166.2	-0.6441	-2.7459
		1145	569.3	518.2	1.9783	2.1730
		1146	664.5	127.7	3.4215	-3.2858
		1147	166.7	62.6	-4.1586	-4.2608
		1148	75.1	46.4	-5.6006	-4.5855
		1169	25.0	240.2	-6.3170	-1.7680
		1170	201.6	533.5	-3.6055	2.4638
		1171	362.9	696.4	-1.1580	4.6725
		1172	45.6	567.3	-6.0614	2.8790
20312	09053284	1144	762.1	680.8	4.9156	4.5820
		1147	522.0	569.9	1.2613	2.8986
		1148	421.6	540.4	-0.2539	2.4837
		1150	737.3	322.3	4.5107	-0.5610
		1151	756.6	50.0	4.9045	-4.3902
		1152	704.0	168.2	4.0177	-2.7183
		1177	211.4	406.2	-3.4481	0.6151
		1178	282.6	673.7	-2.3836	4.3541
		1179	65.1	556.6	-5.7437	2.8682
		1180	93.7	133.5	-5.2524	-2.5455
20314	09054544	724	637.3	524.4	2.9929	2.2729
		725	594.7	663.8	2.3604	4.2393
		1427	163.5	197.0	-4.1351	-2.3288
		1431	222.3	436.3	-3.2827	1.0416
		1433	125.1	355.7	-4.7669	-0.0945
		1434	521.0	86.7	1.2321	-3.3516
		1435	792.8	135.5	5.4163	-3.1737

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
20114	09054544	1436	206.1	27.9	-3.5600	-4.7354
		1441	506.4	413.9	1.0160	0.7875
		1442	607.3	170.9	2.5467	-2.6769
		1443	772.4	348.6	5.0428	-0.1832
20816	09054684	1429	309.9	84.9	-1.9774	-3.8890
		1434	237.3	606.1	-2.3008	3.4101
		1435	542.5	647.7	1.5711	3.9986
		1437	271.5	427.1	-2.5351	0.9104
		1438	537.3	228.1	1.4765	-1.8789
		1439	743.8	52.4	4.6935	-4.3523
		1442	367.6	634.2	-1.0823	4.5023
		1444	711.6	676.2	4.1383	4.4765
		1446	671.3	569.5	3.5145	2.9152
		1447	552.3	373.2	1.7069	0.1441
		1448	725.0	290.0	4.3238	-1.0145
20818	09054824	1429	137.0	550.4	-4.5973	2.6347
		1438	349.8	635.5	-1.3564	4.5201
		1439	550.0	515.7	1.6796	2.1370
		1440	221.9	350.9	-3.2901	-0.1578
		1449	697.8	487.2	3.9034	1.7525
		1588	436.2	42.3	0.7075	-4.4817
20911	09088984	1061	730.3	20.9	4.5042	-4.8027
		1064	701.2	183.1	3.9732	-2.5070
		1065	680.6	383.6	3.6454	0.2922
		1067	94.9	199.0	-5.2290	-2.3284
		1069	524.2	155.4	1.2806	-2.8965
		1072	417.7	36.4	-0.3379	-4.5657
20912	09089054	1067	511.3	661.6	1.1030	4.1903
		1070	798.2	206.4	5.4714	-2.1775
		1071	723.6	418.3	4.3892	0.7370
		1075	174.2	91.9	-4.0363	-3.8233
		1076	382.2	119.2	-0.8769	-3.4041
		1079	693.9	35.5	3.9107	-4.5814
20913	09089124	1075	535.8	553.4	2.2202	2.6692
		1076	306.2	580.9	5.5778	3.1348
		1080	553.0	131.8	1.7946	-3.2276
		1081	755.2	191.6	4.3015	-2.3886
		1082	393.0	187.8	-0.7105	-2.4445
		1084	43.5	50.1	-6.0280	-4.5660

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
20913	09089124	1085	349.2	27.2	-1.3830	-4.7100
20914	09089194	1082	805.1	638.2	5.5820	3.9769
		1084	430.6	473.5	-0.1258	1.5480
		1085	760.5	480.0	4.8568	1.6692
		1086	572.4	244.7	2.0068	-1.6513
		1087	791.6	118.0	5.4077	-3.4246
		1088	633.6	94.5	2.9579	-3.8828
		1089	330.2	93.1	-1.6669	-3.7748
		1090	417.0	190.5	-0.3465	-2.4055
20918	09090454	494	515.5	573.3	1.1623	2.9489
		1258	238.7	76.1	-3.0578	-4.0302
		1262	153.7	633.7	-4.3732	3.8091
		1263	185.2	434.1	-3.8463	1.0084
		1264	762.3	94.3	4.9571	-3.7575
		1265	504.0	25.4	0.9836	-4.7138
		1267	618.5	586.5	2.7132	3.1470
		1268	738.1	320.1	4.5217	-0.5888
20920	09090594	1258	43.4	610.0	-6.1332	3.4981
		1260	321.6	100.6	-1.7732	-3.6699
		1261	293.3	232.1	-2.2192	-1.8220
		1264	523.3	633.5	1.2805	3.7950
		1265	280.4	569.3	-2.4036	2.8941
		1266	39.0	333.5	-6.0964	-0.4283
		1269	741.5	615.1	4.5811	3.5956
		1271	497.4	292.1	0.8752	-0.9878
20922	09090734	1272	631.4	231.9	2.9030	-1.8317
		1273	783.1	325.4	5.2134	-0.5151
		1274	545.2	437.2	1.6028	1.0344
		1275	750.8	458.6	4.7092	1.3584
21010	09124894	1107	393.2	506.7	-0.6893	2.0125
		1108	242.4	310.7	-2.9807	-0.7231
		1109	22.1	332.0	-6.3619	-0.4550
		1110	61.2	627.7	-5.3582	-3.7452
		1111	115.9	20.4	-4.9673	-4.9269
		1112	366.1	163.8	-1.1212	-2.7786
		1113	252.7	92.7	-2.8438	-3.7949
		1114	329.0	61.5	-1.6871	-4.2227
21011	09124964	1111	507.6	538.0	1.0413	2.4493

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
21011	09124964	1112	756.6	630.4	4.8302	4.5719
		1113	646.7	615.2	3.1392	3.5566
		1114	722.7	537.0	4.2909	3.1340
		1115	280.8	529.9	-2.3967	2.3406
		1116	91.0	384.5	-5.2869	0.2974
		1117	466.3	636.8	0.4174	3.8339
		1118	255.5	683.4	-2.8043	4.4940
		1127	230.7	5.8	-3.1806	-5.0591
		1128	394.6	24.1	-0.6839	-4.7438
		1129	118.1	57.7	-4.9062	-4.3609
		1130	144.6	119.5	-4.4822	-3.4469
21012	09125034	1123	381.1	577.4	-0.8722	3.0011
		1124	246.1	605.5	-2.9333	3.4001
		1125	138.5	441.8	-4.5591	1.1095
		1126	36.2	672.0	-5.4834	4.3813
		1127	613.2	536.9	2.6330	2.4398
		1128	781.1	559.7	5.1833	2.8133
		1129	492.8	582.1	0.8198	3.0675
		1130	523.1	647.8	1.2763	3.9937
		1135	290.4	120.0	-2.2704	-3.4003
		1136	32.1	77.3	-5.4629	-4.1075
		1137	32.7	132.0	-6.2209	-3.3422
		1138	184.0	131.3	-3.3817	-3.2627
21013	09125104	1135	661.3	647.0	3.3731	4.0187
		1136	446.5	598.7	0.1180	3.1596
		1137	391.3	640.3	-0.7137	3.8819
		1138	552.0	652.1	1.7140	4.0611
		1139	329.9	534.0	-1.6493	2.3979
		1141	43.9	541.0	-6.0750	2.5077
		1142	116.6	451.1	-4.8956	1.2394
		1153	135.8	84.7	-4.6275	-3.9576
		1154	127.7	190.2	-4.7302	-2.4409
		1155	362.0	7.6	-1.1883	-4.9862
		1156	308.4	109.5	-1.9975	-3.5462
21014	09125174	1153	496.6	580.2	0.8764	3.0421
		1154	488.2	690.0	0.7509	4.5928
		1155	735.6	513.7	4.4752	2.1372
		1156	677.7	615.0	3.5079	3.5657
		1157	154.3	562.2	-4.3343	2.7934
		1158	90.0	563.3	-5.3498	2.8911
		1160	290.7	543.0	-2.2469	2.5245

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
21016	09126434	726	447.6	609.1	0.1343	3.4502
		1435	279.0	164.4	-2.4399	-2.7710
		1442	95.5	182.0	-5.2235	-2.5615
		1443	239.9	371.3	-3.0158	0.1324
		1444	455.3	223.3	0.2341	-1.9420
		1445	770.6	77.4	5.1032	-3.9969
		742	555.3	541.4	1.7605	2.5040
		1446	422.9	97.5	-0.2592	-3.7020
		1451	752.9	665.0	4.7688	4.3434
		1453	618.5	232.1	2.7074	-1.8239
21018	09126574	1435	60.5	652.6	-5.8935	4.1133
		1438	81.3	242.8	-5.4412	-1.7031
		1439	316.1	87.7	-1.8839	-3.8488
		1445	510.4	577.2	1.0869	3.0025
		1446	185.5	596.6	-3.8620	3.2823
		1447	84.6	386.1	-5.3874	0.3262
		1448	262.0	325.2	-2.6845	-0.5153
		1449	476.7	80.3	0.5535	-3.9443
		1450	604.0	181.8	2.4889	-2.5280
		1454	685.1	523.6	3.7132	2.2679
		1456	634.4	400.6	2.9461	0.5303
		1457	750.4	85.2	4.7744	-3.8864
21022	09126924	1460	699.7	683.9	3.9569	4.5754
		1461	582.0	593.2	2.1641	3.0890
		1462	702.2	447.7	3.9717	1.1942
21114	09162344	1264	236.6	102.6	-3.0881	-3.6522
		1267	67.0	560.0	-5.7142	2.7788
		1268	193.2	320.0	-3.7269	-0.5894
		1269	468.1	112.1	0.4267	-3.4980
		1270	764.9	19.1	5.0535	-4.8360
		1277	729.0	583.1	4.3852	3.1331
		1278	607.0	316.3	2.5315	-0.6493
		1279	710.1	404.9	4.0903	0.5983
21116	09162484	1264	31.2	627.0	-6.3540	3.7515
		1269	235.3	641.7	-3.1064	3.9111
		1270	515.5	552.6	1.1612	2.6570
		1271	26.1	293.4	-6.2954	-1.0033
		1272	160.4	245.1	-4.2276	-1.6525
		1275	539.0	34.9	1.5135	-4.5817
		1276	494.4	202.4	0.8269	-2.2378

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
21116	09162484	1280	772.8	527.4	5.0514	2.3504
		1282	664.3	361.4	3.3981	-0.0169
21118	09162624	1273	386.2	369.9	-0.8024	0.3819
		1274	129.7	476.3	-4.7030	1.5935
		1275	333.6	522.2	-1.5926	2.2322
		1276	293.9	681.3	-2.2100	4.4610
		1283	678.0	578.8	3.6071	3.0459
		1235	762.2	388.7	4.8873	0.3747
21210	09198324	1445	265.9	70.5	-2.6463	-4.1002
		1451	213.5	645.0	-3.4471	3.9619
		1452	343.7	543.9	-1.4393	2.5403
		1453	104.5	204.4	-5.0871	-2.2410
		1454	455.2	33.9	0.2330	-4.5920
		1455	723.3	7.7	4.4118	-4.9852
		1464	633.7	271.7	2.9368	-1.2690
		1666	544.0	679.1	1.5965	4.4488
		1667	501.9	571.8	0.9564	2.9299
		1668	626.4	445.2	2.8230	1.1593
21218	09198464	1449	67.5	108.5	-5.6756	-3.6565
		1450	176.4	214.1	-3.9863	-2.0833
		1454	227.0	561.0	-3.2204	2.7829
		1455	476.2	534.1	0.5676	2.3973
		1456	184.0	432.6	-3.8647	0.9877
		1458	495.4	276.2	0.8435	-1.2072
		1459	749.8	231.9	4.7116	-1.8236
		1457	336.4	132.5	-1.5735	-3.2159
		1465	664.7	503.6	3.4034	1.9828
21220	09198604	1457	154.1	584.9	-4.3446	3.1192
		1459	543.4	674.0	1.5885	4.3715
		1460	138.4	176.9	-4.5667	-2.6257
		1469	536.0	124.5	1.4598	-3.3312
		1470	572.3	263.1	2.0075	-1.3969
21222	09198814	1450	115.2	480.8	-4.9297	1.6503
		1456	127.4	657.0	-4.7979	4.1396
		1457	245.9	419.9	-2.9250	0.8007
		1458	377.7	545.3	-0.9248	2.5468
		1459	596.0	513.8	2.3715	2.1056
		1460	240.6	46.9	-3.0335	-4.4584
		1467	716.5	564.2	4.1902	2.8445

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
21222	09198814	1469	604.3	8.1	2.5333	-4.9759
		1449	25.0	382.9	-6.3234	0.2658
		1470	634.7	138.6	2.9627	-3.1441
21224	09198884	1460	303.8	549.7	-2.0491	2.6109
		1461	209.2	430.4	-3.4742	0.9466
		1462	340.4	318.1	-1.5001	-0.6270
		1469	658.1	506.0	3.3034	2.0031
		1470	689.1	628.5	3.7816	3.7541
21314	09234234	508	488.5	631.7	0.7533	3.7681
		1270	250.9	37.9	-2.8770	-4.5715
		1277	171.6	537.2	-4.0747	3.1513
		1278	68.8	311.5	-5.6336	-0.7307
		1279	160.5	409.5	-4.2223	0.6621
		1280	524.6	41.7	1.2963	-4.4827
		1281	769.8	142.8	5.0529	-3.0708
		1288	778.2	566.6	5.1370	2.9176
		1290	584.9	262.8	2.1974	-1.3962
21316	09234374	1275	125.0	57.7	-4.8017	-4.3498
		1276	60.7	217.6	-5.7613	-2.0682
		1280	302.0	570.3	-2.0756	2.9151
		1281	533.7	659.2	1.4389	4.1618
		1282	209.8	387.8	-3.4721	0.3613
		1283	478.8	158.4	0.5875	-2.8518
		1284	303.2	229.7	5.5403	-1.8492
		1291	656.8	543.9	3.2877	2.5506
		1292	796.0	612.7	5.4277	3.5976
21318	09234514	1283	271.3	634.3	-2.5530	3.8042
		1284	578.0	694.5	2.1111	4.6770
		1285	380.3	452.9	-0.8875	1.2631
		1286	534.2	395.6	1.4340	0.4561
		1287	615.2	476.0	2.6585	1.5847
21416	09270214	1455	234.5	34.6	-3.1262	-4.6272
		1466	730.1	65.6	4.4622	-4.1562
		1463	401.3	519.4	-0.5695	2.2035
		1464	127.2	274.7	-4.7331	-1.2331
		1465	433.3	21.9	-0.1005	-4.7650
		1473	775.0	514.0	5.0789	2.1724
		1474	686.2	355.2	3.7232	-0.0921
		1475	745.4	242.2	4.6407	-1.6728

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
21416	09270214	1663	109.4	447.0	-5.0122	1.1914
21418	09270354	1453	52.0	277.6	-5.8954	-1.2169
		1459	305.4	262.3	-2.0336	-1.3971
		1465	194.2	523.2	-3.7167	2.2553
		1466	470.4	564.7	0.4794	2.8263
		1467	442.2	340.8	0.0421	-0.3026
		1468	751.4	105.6	4.7805	-3.5981
		1476	736.4	578.0	4.4972	3.0637
		1478	603.4	503.3	2.4821	1.9701
		1479	729.3	373.3	4.3847	0.1572
21420	09270494	1468	528.7	540.4	1.3591	2.4846
		1469	167.3	145.5	-4.1326	-3.0645
		1470	183.6	285.3	-3.3741	-1.0851
		1480	622.3	639.9	2.7741	3.9017
		1481	504.9	310.5	0.9892	-0.7329
21514	09306124	1281	252.6	154.1	-2.8406	-2.9185
		1288	233.0	574.3	-3.1296	2.9690
		1289	521.5	627.7	1.2515	3.7161
		1290	65.1	255.2	-5.6915	-1.5323
		1291	394.4	44.5	-0.6926	-4.4496
		1292	538.9	142.1	1.5013	-3.0774
		1293	747.8	37.9	4.7696	-4.5560
		1296	677.7	569.5	3.6007	2.9207
		1298	697.0	206.6	3.9044	-2.1759
		1300	676.9	339.6	3.5891	-0.3166
21516	09306264	1281	52.9	679.7	-6.0459	4.5188
		1284	343.1	288.1	-1.4609	-1.0362
		1285	169.0	16.1	-4.1312	-4.9299
		1287	411.3	61.5	-0.4367	-4.2101
		1291	169.8	583.1	-4.1004	3.0932
		1292	303.4	676.2	-2.0642	4.3907
		1293	500.2	577.7	0.9317	3.0097
		1294	636.9	57.1	3.0162	-4.2706
		1295	735.2	94.0	4.5339	-3.7592
		1299	706.2	630.2	4.0436	3.7972
		1302	559.5	437.8	1.8170	1.0487
21518	09306404	1286	139.4	444.5	-4.5459	1.1504
		1287	211.3	533.9	-3.4560	2.4020
		1294	425.2	527.5	-0.2049	2.3043

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
21518	09306404	1295	519.6	561.4	1.2232	2.7798
		1303	732.7	555.7	4.4367	2.7382
		1305	616.9	673.6	2.6955	4.3853
		1306	529.3	294.1	1.3570	-0.9615
		1307	753.0	221.4	4.7608	-1.9735
21614	09342104	766	103.6	478.7	-5.1083	1.6240
		1466	198.0	55.6	-3.6818	-4.3470
		1471	309.3	557.8	-1.9644	2.7295
		1472	449.2	587.3	0.1586	3.1458
		1473	206.5	493.9	-3.5259	1.9109
		1474	130.3	330.4	-4.6865	-0.4567
		1475	193.7	226.5	-3.7247	-1.9127
		1476	474.1	103.0	0.5202	-3.6320
		1477	675.1	167.1	3.5758	-2.7371
		1478	339.3	3.7	-1.5356	-5.0499
21616	09342244	1468	292.3	117.9	-2.2450	-3.4349
		1476	229.0	539.1	-3.1942	3.1696
		1477	414.8	648.8	-0.3657	3.9991
		1478	105.5	494.8	-5.0784	1.8492
		1479	240.4	382.1	-3.0096	0.2749
		1480	380.3	240.0	-0.9038	-1.7173
		1482	649.6	167.1	3.1791	-2.7425
21618	09342334	1463	115.2	568.3	-4.9516	2.8833
		1480	198.8	682.6	-3.6840	4.4880
		1481	116.1	338.0	-4.9063	-0.3570
		1482	445.6	613.3	0.1026	3.4990
		1486	490.9	404.4	0.7816	0.5734
		1487	753.7	233.0	4.7701	-1.8208
		1489	752.9	560.3	4.7469	2.8050
21705	09375004	196	66.8	328.0	-5.6640	-0.4958
		197	291.5	276.5	-2.2434	-1.2009
		306	254.0	589.0	-2.8101	3.1733
		368	380.0	375.1	-0.8990	0.1772
		383	438.6	679.3	-0.0031	4.4343
21710	09373014	799	694.4	512.7	3.8512	2.1231
		1296	120.0	465.6	-4.8512	1.4473
		1297	445.4	515.7	0.1003	2.1433
		1298	162.1	113.3	-4.2173	-3.5173
		1299	442.6	35.1	0.0405	-4.5747

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
21710	09378014	1300	132.2	241.1	-4.6624	-1.7103
		1301	722.7	123.9	4.3212	-3.3312
		1308	628.0	323.9	2.8483	-0.5371
21712	09378154	1295	302.0	35.6	-2.1022	-4.5948
		1299	213.7	568.6	-3.4263	2.8899
		1301	475.1	648.6	0.5500	4.0047
		1302	87.5	356.6	-5.3445	-0.0892
		1303	530.9	62.0	1.3869	-4.1991
		1304	786.5	151.8	5.3095	-2.9450
		1305	339.2	171.4	-0.7717	-2.6681
		1309	714.0	566.3	4.1517	2.8865
		1310	561.7	328.0	1.8472	-0.4866
21714	09378294	1295	104.3	497.1	-5.0896	1.8860
		1303	317.9	522.3	-1.8322	2.2363
		1304	561.0	601.6	1.8433	3.3497
		1305	137.1	625.4	-3.8491	3.6863
		1306	145.0	232.6	-4.4674	-1.8315
		1307	385.4	185.6	-0.3236	-2.4706
		1311	733.0	442.3	4.4375	1.1234
		1312	666.5	122.6	3.4514	-3.3543
22018	09486024	1486	406.9	92.3	-0.5029	-3.7746
		1489	647.1	297.7	3.1336	-0.9068
22019	09486234	1486	217.4	428.2	-3.3571	0.9286
		1487	492.2	315.8	0.7962	-0.6541
		1489	421.6	633.3	-0.2608	3.7877
		1490	694.8	16.9	3.9429	-4.8480
		1492	790.3	289.5	5.3298	-1.0105
22020	09486444	1487	314.3	606.9	-1.8320	3.4196
		1490	506.4	236.9	1.0125	-0.3628
		1491	659.2	641.4	3.3333	3.9383
		1492	595.7	594.9	2.2200	3.2592
22214	09557774	1493	161.5	139.4	-4.2259	-3.1664
		1500	804.0	146.4	5.5861	-3.0393
		1502	645.7	202.2	3.1170	-2.2593
		1513	120.0	304.2	-4.8452	-0.8383
22617	09702324	1529	312.3	599.7	-1.9136	3.3149
		1530	463.7	649.4	0.3802	4.0090

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
22517	09702324	1531	324.0	285.5	-1.7488	-1.0793
23010	09844634	1600	563.3	674.8	1.9626	4.3827
		1601	458.8	240.8	0.2871	-1.7090
		1602	405.4	339.2	-0.5152	-0.3330
		1604	327.5	171.7	-1.7070	-2.6750
		1605	442.5	412.4	0.0512	0.6887
23311	09953834	1348	45.2	120.2	-6.0256	-3.5065
		1357	39.8	282.8	-6.0862	-1.1513
		1358	291.5	127.1	-2.2539	-3.3011
		1359	486.1	211.1	0.7010	-2.1191
		1361	319.3	32.0	-1.8394	-4.6492
		1363	273.6	531.3	-2.5091	3.0610
41609	11445644	1333	458.4	593.6	0.2996	3.2288
		1642	471.3	15.0	0.4848	-4.8636
		1644	258.0	104.4	-2.7611	-3.6259
41611	11445784	1332	59.2	571.7	-5.8603	2.9392
		1233	129.6	116.8	-4.7112	-3.4957
		1342	251.4	545.8	-2.8442	2.5640
		1343	400.0	420.3	-0.5913	0.8061
		1355	384.6	602.8	-0.8211	3.3563
		1571	733.3	454.5	4.0642	1.4372
		1572	580.3	63.8	2.1465	-4.1775
41614	11446134	1571	386.9	666.6	-0.7881	4.2489
		1572	209.4	337.2	-3.4795	-0.3535
		1573	649.2	497.4	3.1716	1.8860
		1574	699.9	370.1	3.9397	0.1038
		1653	437.5	292.8	-0.0308	-0.9792
		1654	725.8	19.3	4.4361	-4.8292
		1655	253.5	32.4	-2.7620	-4.6563
41724	11481624	1491	71.2	311.9	-5.5948	-0.7280
		1495	145.3	490.2	-4.4550	1.7902
		1496	455.5	326.7	0.2428	-0.5022
		1497	368.2	459.0	-1.0708	1.3489
		1498	604.2	661.8	2.5024	4.2120
		1564	788.2	632.6	5.3145	3.8841
41726	11481764	1498	263.5	212.2	-2.6719	-2.1036
		1514	250.8	643.9	-2.8691	3.9386

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{x}	\bar{y}	x_0	y_0
41726	11481764	1515	257.4	466.8	-2.7506	1.4636
		1516	366.9	430.3	-1.0891	1.6467
		1517	466.8	635.9	0.4253	3.8233
		1529	542.4	503.9	1.5650	1.9732
		1530	591.5	625.9	2.3092	3.6967
		1531	739.5	331.6	4.5434	-0.4284
		1564	441.4	219.3	0.0228	-2.0006
41729	11482114	1531	392.7	548.0	-0.6973	2.5894
		1556	678.2	519.5	3.6070	2.2066
		1564	109.6	499.1	-5.0153	1.9106
		1568	659.3	241.4	3.3255	-1.6988
		1570	464.1	388.1	0.3764	0.3523
		1659	160.8	21.0	-4.2551	-4.8690
		1660	428.2	58.9	-0.1777	-4.2494
		1661	125.0	162.5	-4.7720	-2.8353
42209	11622420	1343	248.4	99.8	-2.9084	-3.6933
		1354	264.4	510.4	-2.6450	2.0700
		1355	178.1	285.0	-3.9574	-1.0897
		1571	549.9	253.6	1.6693	-1.5261
42211	11622560	1366	85.4	169.2	-5.3860	-2.7598
		1370	39.1	460.0	-5.3274	1.3611
		1575	668.2	243.5	3.4622	-1.6728
		1576	735.2	89.6	5.3301	-3.8342
		1577	287.5	500.6	-2.2934	1.9319
		1596	569.2	565.6	1.9730	2.8371
		1597	737.2	527.2	4.5041	2.3272
42213	11622770	1565	39.0	661.3	-6.2561	4.2517
		1592	596.0	358.9	2.3660	-0.0544
		1593	711.9	628.0	4.1299	3.7663
		1593	183.8	640.2	-3.9059	3.8962
42214	11622910	1565	531.4	180.3	1.3881	-2.5519
		1573	177.5	276.4	-3.9682	-1.2145
		1574	276.8	182.8	-2.4726	-2.5200
		1575	294.7	604.4	-2.1374	3.3778
		1576	373.6	443.1	-0.9895	1.1220
		1598	678.9	150.8	3.6368	-2.9634
42223	11657070	1603	535.7	128.1	1.4546	-3.2752
		1606	458.0	266.5	0.2769	-1.3415

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_0	y_0
42323	11657070	1607	393.8	625.3	-0.6807	3.6729
42324	11658400	1514	99.0	290.8	-5.1639	-1.0191
		1515	163.9	109.3	-4.1837	-3.5795
		1516	267.2	153.0	-2.6186	-2.9354
		1517	322.6	353.4	-1.7653	-0.1224
		1524	83.0	395.8	-5.4139	0.4593
		1529	440.3	235.9	0.0153	-1.7689
		1530	455.5	391.1	0.2474	0.3976
		1531	694.1	131.4	3.8728	-3.2311
42326	11658540	1543	193.5	322.7	-3.6447	-0.4131
		1544	409.3	368.3	-0.4532	0.0808
		1550	159.5	489.7	-4.2424	1.7854
		1551	159.9	655.1	-4.2841	4.1093
		1553	372.2	613.5	-1.0091	3.5079
		1554	608.3	165.5	2.5564	-2.7575
		1555	629.7	382.7	2.8749	0.2780
		1563	631.6	667.9	2.9175	4.3087
		1566	703.1	227.4	3.9969	-1.8917
		1569	775.7	342.3	5.0961	-0.2756
42329	11658890	1554	221.3	553.5	-3.2987	2.6726
		1556	247.3	315.3	-2.9071	-0.6591
		1566	318.5	586.1	-1.8246	3.1238
		1568	338.2	53.6	-1.5431	-4.3334
		1569	406.1	670.7	-0.4652	4.3080
		1570	95.0	99.2	-5.2550	-3.7784
43011	11799591	1577	30.5	112.1	-5.4732	-3.6012
		1595	788.3	438.0	5.2848	1.0765
		1596	315.5	243.5	-1.3817	-1.6654
		1597	490.7	263.1	0.7730	-1.3943
43013	11799731	1579	583.5	600.9	2.1884	3.3416
		1595	531.4	90.8	1.3919	-3.8016
		1662	667.1	386.7	3.4396	0.3358
43015	11800011	1594	748.5	514.4	4.6741	2.1580
		1595	194.3	339.4	-3.7073	-0.3149
		1662	352.7	586.9	-1.3037	3.1403
		1663	664.2	115.7	3.4137	-3.4449
43017	11800151	1584	616.3	495.0	2.6772	1.8506

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
43017	11300151	1592	691.0	15.5	3.8838	-4.8646
		1593	672.3	288.1	3.5311	-1.0424
		1594	325.3	628.3	-1.7228	3.7096
		1663	246.6	243.3	-2.9233	-1.6707
43123	11335571	1205	149.1	646.4	-4.4516	3.9880
		1207	94.4	292.1	-5.2363	-1.0012
		1209	332.8	569.2	-1.6062	2.3906
		1213	559.4	615.9	1.8264	3.5513
		1553	164.4	192.6	-4.1729	-2.3944
		1555	465.0	33.1	0.3829	-4.6071
		1562	195.7	398.1	-3.6865	0.5031
		1563	390.6	322.3	-0.7397	-0.5606
		1599	600.6	434.1	2.4353	0.9977
		1610	674.0	227.3	3.5502	-1.8935
43125	11335711	1209	62.7	161.6	-5.7449	-2.8840
		1210	104.7	284.7	-5.0762	-1.1035
		1211	96.5	510.4	-5.2177	2.0720
		1212	401.3	311.6	-0.5783	-0.7116
		1213	265.6	227.2	-2.6388	-1.8922
		1220	214.9	635.1	-3.4196	3.8192
		1221	327.9	565.2	-1.6804	2.8344
		1222	253.7	377.7	-2.8073	0.2190
		1599	323.3	62.0	-1.7749	-4.2146
		1611	569.5	468.1	1.9699	1.4714
		1612	575.3	334.3	2.0535	-0.4013
		1613	532.1	133.7	1.3991	-3.2002
43127	11335991	1610	70.3	176.5	-5.6218	-2.6636
		1611	273.8	682.0	-2.5211	4.4718
		1612	261.9	551.3	-2.6860	2.7308
		1613	199.8	387.9	-3.6239	0.3582
		1615	601.6	376.3	2.4493	0.1836
43129	11336131	1627	356.0	170.9	-1.2749	-2.6724
		1628	603.1	9.1	2.5140	-4.9407
		1629	658.0	372.8	3.3018	-0.1471
		1630	651.6	473.7	3.2064	1.5604
		1631	775.9	391.9	5.0964	0.4314
43611	11976589	1578	49.5	335.1	-5.9282	-0.4059
		1579	325.3	296.9	-1.7253	-0.9166
		1580	106.6	639.5	-5.1170	3.8962

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
43611	11976589	1581	773.2	501.1	5.0540	1.9718
		1582	626.8	676.4	2.8456	4.4281
		1562	471.5	115.9	0.4811	-3.4509
43613	11976729	1422	63.1	504.1	-5.7474	1.9825
		1581	517.5	83.1	1.1815	-3.9094
		1582	362.2	230.0	-1.1750	-1.8528
		1583	736.3	79.6	4.5584	-3.9680
		1585	507.3	510.3	1.0369	2.0593
43615	11977009	1581	193.3	347.4	-3.7224	-0.2100
		1582	74.9	502.4	-5.5569	1.9556
		1583	393.9	309.9	-0.6896	-0.7388
		1584	657.7	178.4	3.3091	-2.5809
		1586	488.3	483.1	0.7476	1.3973
		1591	635.6	497.2	2.9689	1.8806
		1594	312.2	139.3	-1.9390	-3.1282
43617	11977149	1584	109.3	496.9	-5.0192	1.8799
		1590	352.9	659.2	-1.3048	4.1448
		1592	395.8	131.8	-0.6716	-3.2217
		1593	253.6	343.0	-2.8100	-0.2672
		1656	775.3	643.3	5.1202	4.0289
		1657	725.1	259.7	4.3298	-1.4368
43723	12012569	1611	304.6	159.5	-2.0535	-2.8425
		1612	351.5	39.5	-1.3479	-4.5318
		1614	528.7	651.5	1.3613	4.0460
		1615	766.9	37.3	5.0785	-4.5801
		1616	795.3	605.0	5.4128	3.4766
43725	12012709	1614	269.1	189.4	-2.5898	-2.4287
		1616	524.8	185.2	1.2864	-2.4855
		1617	420.1	416.1	-0.2885	0.7429
		1618	616.2	367.7	2.6704	0.0623
		1619	461.3	644.2	0.3412	3.9350
43727	12012989	1616	204.6	434.8	-3.5516	1.0178
		1617	145.4	652.8	-4.5102	4.0779
		1618	309.9	581.9	-1.9551	3.0693
		1623	650.8	403.9	3.1943	0.5822
		1625	750.5	314.6	4.7127	-0.6598
		1626	748.2	183.3	4.6943	-2.4266

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
43729	12013129	1625	227.7	614.8	-3.2176	3.5319
		1626	221.8	494.7	-3.2913	1.8544
		1627	218.0	48.4	-3.3776	-4.4300
		1628	549.3	47.1	1.6712	-4.4022
		1629	441.4	358.1	0.0309	-0.0591
		1630	391.3	441.1	-0.7215	1.1010
		1631	567.2	445.7	1.9333	1.1612
		1632	728.3	332.1	4.3716	-0.4179
		1633	771.7	463.5	5.0248	1.4393
		1634	669.4	645.6	3.4836	4.0030
44409	12152467	1429	93.6	495.3	-5.2613	1.8593
		1430	92.4	278.5	-5.2659	-1.1960
		1440	235.9	497.8	-3.0762	1.8962
		1585	273.5	159.9	-1.0090	-2.8327
		1586	746.8	48.4	4.7465	-4.4122
		1587	765.2	567.7	4.9392	2.9236
		1588	518.8	606.9	1.2143	3.4183
44411	12152607	1449	77.6	453.3	-5.5038	1.2677
		1587	562.6	195.8	1.8628	-2.3341
		1588	330.3	201.1	-1.6609	-2.2559
		1645	670.4	360.6	3.4922	-0.0307
		1646	768.5	479.8	4.9839	1.6623
		1647	382.5	434.7	-0.8512	1.7058
44413	12152837	1586	181.9	11.5	-3.9281	-4.9955
		1587	172.2	460.5	-4.0446	1.3732
		1590	585.5	142.9	2.2130	-3.0758
		1591	281.7	104.5	-2.4014	-3.6218
		1645	235.6	592.8	-2.3262	3.2186
		1646	387.3	639.4	-0.7848	4.5714
		1651	757.4	651.0	4.8399	4.1295
44524	12188377	1617	467.5	39.7	0.4204	-4.5102
		1618	663.1	54.5	3.4231	-4.3077
		1619	421.7	260.8	-0.2732	-1.4177
		1620	679.2	455.9	3.6240	1.3125
		1621	634.1	661.0	2.9556	4.2118
		1622	311.2	461.0	-1.9348	1.3840
44526	12188517	1620	449.6	99.2	0.1456	-3.6756
		1621	385.8	288.6	-0.8149	-1.0274
		1622	111.9	70.7	-5.0006	-4.1693

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
44526	12186517	1624	539.9	391.1	1.5192	0.3999
		1635	322.1	646.1	-1.7772	3.9692
		1636	715.4	684.4	4.1977	4.6053
44528	12183797	1618	110.4	41.4	-5.0372	-4.6064
		1620	103.2	378.1	-5.0991	0.2153
		1621	69.0	552.4	-5.6773	2.6691
		1623	471.7	52.6	0.4855	-4.3268
		1624	209.7	625.9	-3.4959	3.6914
		1625	601.3	38.7	2.4734	-4.5208
		1638	788.9	530.4	5.2994	2.4064
44530	12188937	1628	685.6	58.1	3.7709	-4.2529
		1625	62.9	246.6	-5.7251	-1.6575
		1629	400.1	189.2	-0.6046	-2.4157
		1630	305.2	214.5	-2.0402	-2.0624
		1631	471.8	334.8	0.4891	-0.3855
		1632	705.5	375.9	4.0231	0.1973
		1633	676.6	510.1	3.5832	2.0805
		1634	461.3	571.3	0.3419	2.9177
45009	12327986	1645	568.1	73.6	1.9562	-4.0402
		1646	622.6	207.4	2.7714	-2.1722
		1647	263.1	109.4	-2.6032	-3.5512
		1648	786.6	533.0	5.2661	2.4339
45011	12328126	1648	562.1	99.5	1.8609	-3.6778
		1649	568.8	361.9	1.9572	-0.0153
		1650	756.4	306.0	4.8066	-0.7868
45013	12328406	1648	102.3	221.0	-5.1226	-2.0127
		1649	125.2	453.3	-4.7676	1.2698
		1650	290.2	386.7	-2.2541	0.3416
		1651	311.2	86.7	-1.9569	-3.8687
		1656	642.2	93.6	3.0886	-3.7643
		1658	765.6	468.9	4.9336	1.5088
		1659	685.3	612.0	3.7332	3.5246
45124	12363896	1624	479.0	16.4	0.6024	-4.8452
		1635	203.7	184.9	-3.5760	-2.4963
		1636	545.7	324.4	1.6076	-0.5400
		1637	738.2	609.6	4.5313	3.5158
45125	12364036	1641	797.1	272.9	5.4378	-1.2435

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
45125	12364036	1642	761.9	418.2	4.3837	0.7949
		1643	495.9	384.6	0.3582	0.3042
		1644	556.6	504.0	1.7804	1.9747
45127	12364316	1634	706.9	83.1	4.0980	-3.9132
		1637	116.6	455.0	-4.9006	1.2932
		1638	435.9	91.3	-0.0602	-3.7933
		1639	768.2	411.9	4.9807	0.7055
		1640	567.4	411.1	1.9345	0.6724
		1641	390.1	507.1	-0.7359	2.0178
		1642	374.7	642.7	-0.9725	3.9136
		1643	139.7	649.5	-4.5978	4.0308
45129	12364456	1628	740.2	28.7	4.6542	-4.6829
		1631	402.2	121.4	-0.5732	-3.3655
		1632	615.0	265.4	2.6550	-1.3571
		1633	526.2	356.3	1.3142	-0.0893
		1634	290.2	298.4	-2.2576	-0.8930
		1638	30.6	322.3	-6.2251	-0.5933
		1639	355.3	612.0	-1.2657	3.4853
		1640	166.8	619.4	-4.1606	3.5984
		1652	738.7	580.4	4.5341	3.1013
		1678	792.9	367.0	5.3579	0.0861
45812	12502275	1656	354.2	62.6	-1.3016	-4.2005
		1657	730.8	112.2	4.4581	-3.4967
		1658	298.6	385.9	-2.1264	0.3292
		1659	167.3	464.2	-4.1186	1.4213
		1660	412.5	567.5	-0.3961	2.8608
		1661	106.2	590.2	-5.1066	3.1910
45911	12538255	1632	669.8	73.4	3.5207	-4.0383
		1639	260.7	164.7	-2.7153	-2.7734
		1640	105.9	88.8	-5.0872	-3.9219
		1652	613.9	357.0	2.6374	-0.0777
		1653	267.9	641.5	-2.6067	3.8988
		1654	639.8	516.8	3.0315	2.1649
		1655	193.4	352.0	-3.7200	-0.1471
		1678	783.5	245.3	5.2295	-1.6178
53301	13165256	0	396.9	474.8	-0.6350	1.5641
		31	316.0	396.4	-1.8653	0.4749
		33	45.3	613.8	-6.1060	3.5534
		34	473.7	80.5	0.5102	-3.9504

Rev/ Frame	DAS Reference Time	Point	Mean Pixel Coordinates		Image Coordinates (mm)	
			\bar{X}	\bar{Y}	x_o	y_o
53301	13165256	35	620.9	497.0	2.7446	1.8740
		38	471.5	603.0	0.4968	3.3584
		819	648.4	77.3	3.1838	-3.9994
		823	274.2	205.0	-2.5132	-2.2076
		825	433.7	524.7	-0.0005	2.2601
		826	596.0	550.7	2.3741	2.6282
		827	278.5	457.1	-2.4303	1.3247
		828	242.4	634.1	-2.9960	3.8019

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REFERENCES

1. Davies, Merton E., *Mariner 9 Control Net of Mars: June 1973*, The Rand Corporation, R-1309-JPL, June 1973.
2. Snyder, L. M., *Mariner 9 TV Subsystem Calibration Report*, Technical Report 610-202, Jet Propulsion Laboratory, California Institute of Technology, November 15, 1971.
3. Krezner, John E., *User and Programmer Guide to the MM'71 Geometric Calibration and Decalibration Programs*, Technical Report 900-575, Jet Propulsion Laboratory, California Institute of Technology, 1 March 1973.
4. Koskela, P. E., M. R. Helton, L. N. Seeley, and S. J. Zawacki, *Mariner Mars 1971 Television Picture Catalog, Sequence Design, and Picture Coverage*, Vol. II, Technical Memorandum 33-585, Jet Propulsion Laboratory, California Institute of Technology, December 15, 1972.